

THE
ARCHITECT
& BUILDING NEWS

Building Exhibition Guide

- HOUSE AT OTHAM, MAIDSTONE
- L.T.E. GARAGE, STOCKWELL

NOVEMBER 12, 1953

VOL. 204

NO. 20

ONE SHILLING WEEKLY

The *BRITANNIC* Floor Spring



No 444

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Springs in 10 Reigns*

WILLIAM NEWMAN & SONS Ltd.

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I sez to myself, “Elmer don’t have to worry, he’s a boy that’s got hisself
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7. Rofstens are supplied in finished colours to specification.

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† Lavatories or even toilet compartments if you wish Sir.

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the building exhibition

silver 25th jubilee

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President: Howard Robertson, M.C., A.R.A., S.A.D.G.
President of The Royal Institute of British Architects.*

**Nov. 18th—Dec. 2nd, 1953.
Olympia, London.**

Exhibits include:—

*Air Compressors.
Air Conditioning.
Asphalte.
Bending Machinery.
Bricks—Tiles.
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Clay, Sand & Lime.
Concrete & Cement Products.
Concrete Plant.
Contractors Plant.
Cooking & Heating Equipment.
Cranes—Hoists.
Diesel Engines.
Earth Moving Equipment.
Electrical Equipment.
Excavators.*

*Fireplaces.
Fire Prevention.
Floors & Flooring.
Glass, decorated, Pavement Lights, etc.
Hot water services.
Insulation.
Joinery.
Ladders, Trucks & Barrows.
Linoleum.
Locks, Safes, Door Furniture & Gear.
Lighting.
Marble.
Metal Windows, Doors & Partitions.
Metalwork.
Mechanised Plant.
Paints & Painting Equipment.
Plaster & Plasterboards.*

*Plastics.
Prefabricated Structures.
Pumps.
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Roofing Materials.
Sanitary Ware.
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Steel.
Stone.
Storage Units.
Timber.
Tools—Hand & Powered.
Tower Cranes.
Tractors.
Vibrators.
Wallboards.
Wallpapers.
Water supply.
Woodworking Machinery.
Wood Preservatives.*

The following Government Departments exhibit:—

The Ministry of Works.

The Department of Scientific and Industrial Research.

The Building Research Station.

Features of special interest include prefabricated houses, schools, pre-stressed concrete, and many other modern developments.

The Ministry of Housing and Local Government.

Forest Products Research.

Her Majesty's Stationery Office.

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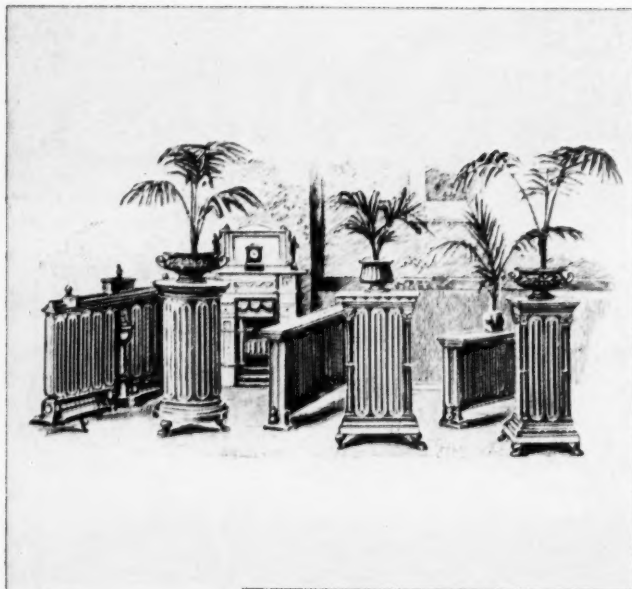
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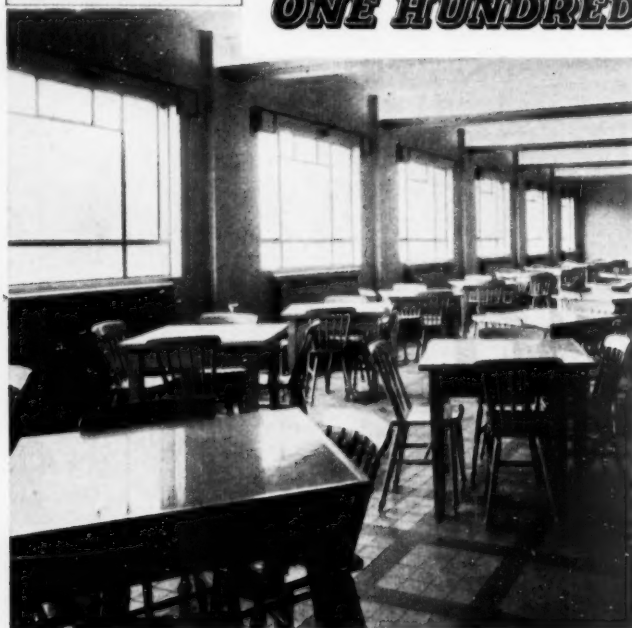
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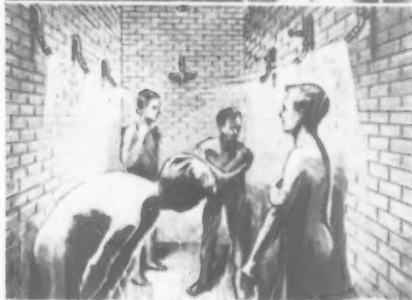
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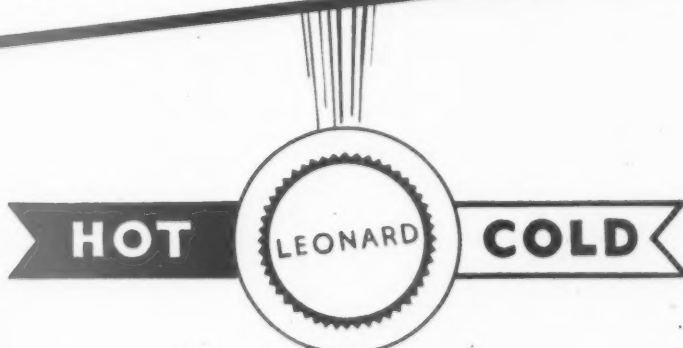
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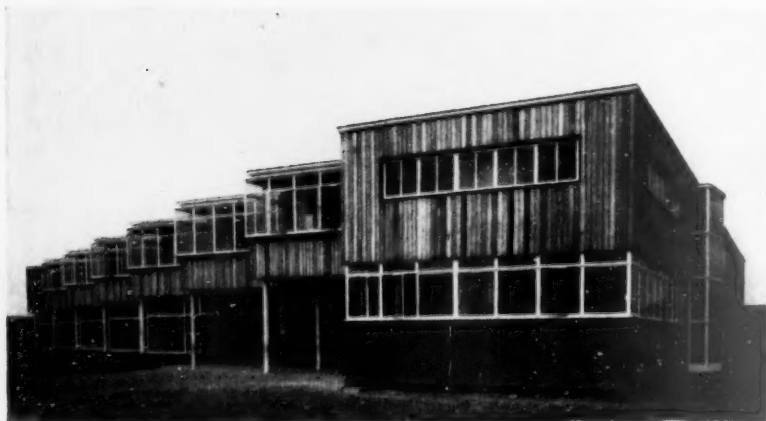
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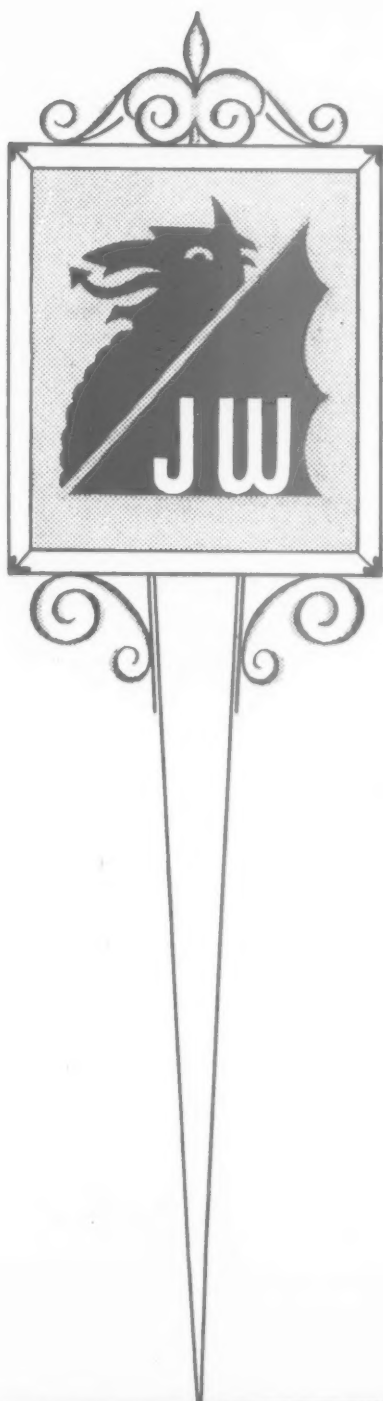
STAND 30 ROW B

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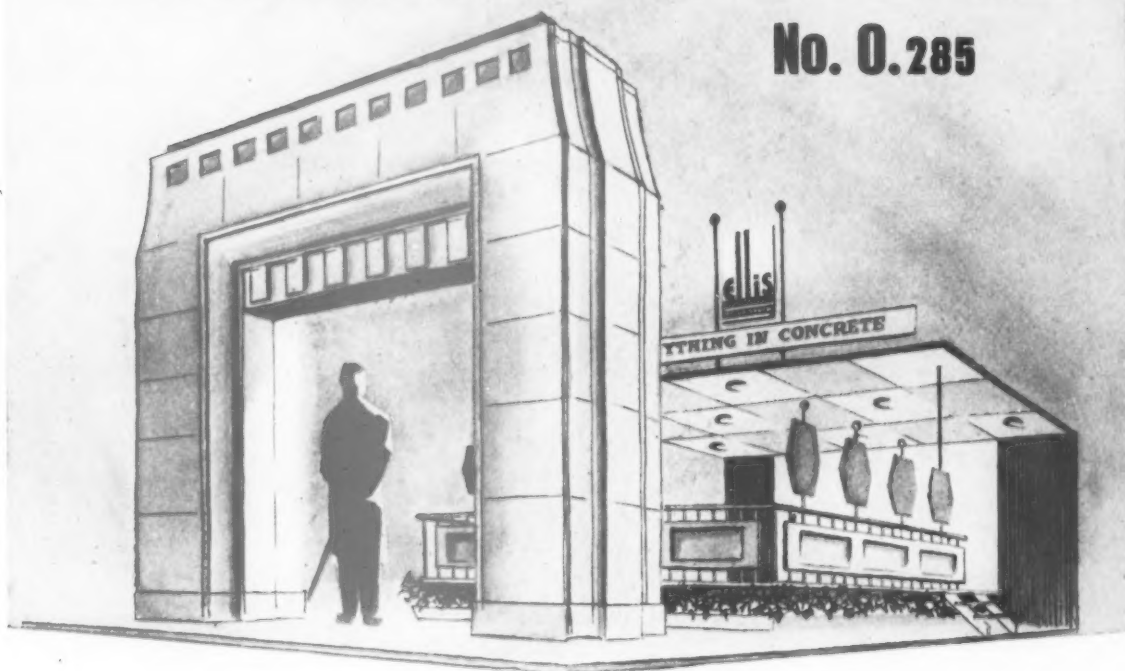
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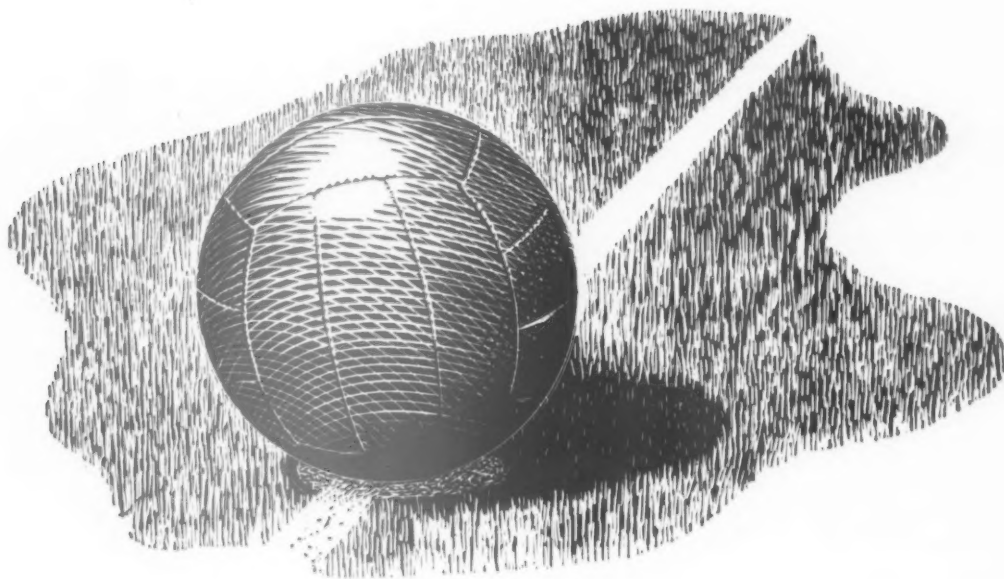


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STAND 498
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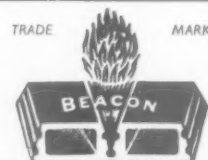
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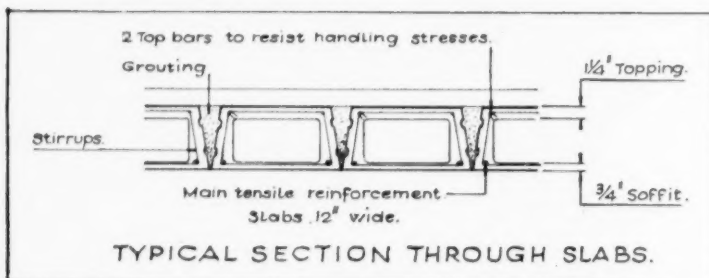
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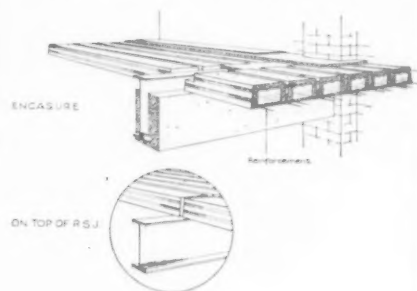


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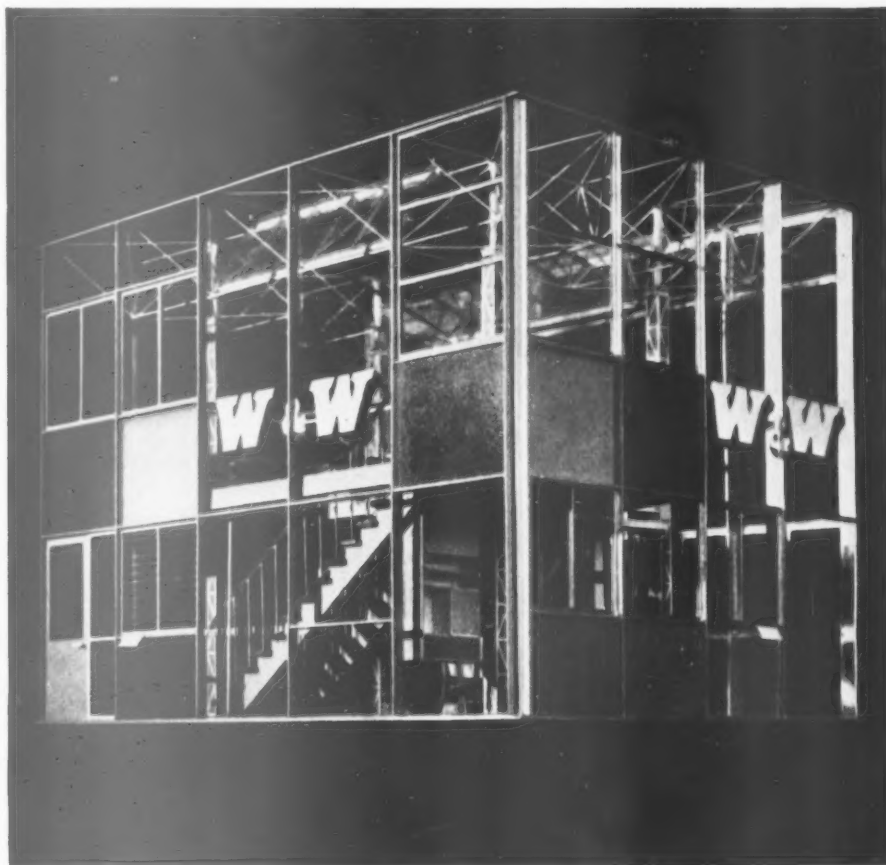
Architects: *Yorke, Rosenberg and
Marshall, F.F.R.I.B.A.*

Associate Architect: *T. R. Evans, A.R.I.B.A.*

Assistant in charge: *W. Park, A.R.I.B.A.*

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STAND D 83



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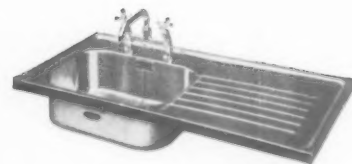
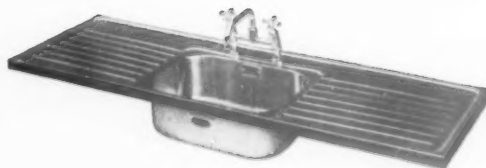
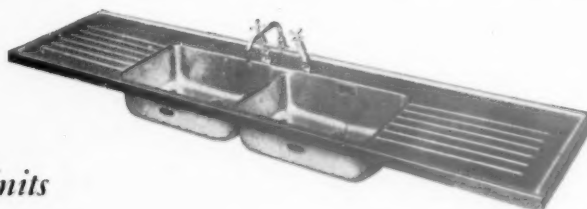
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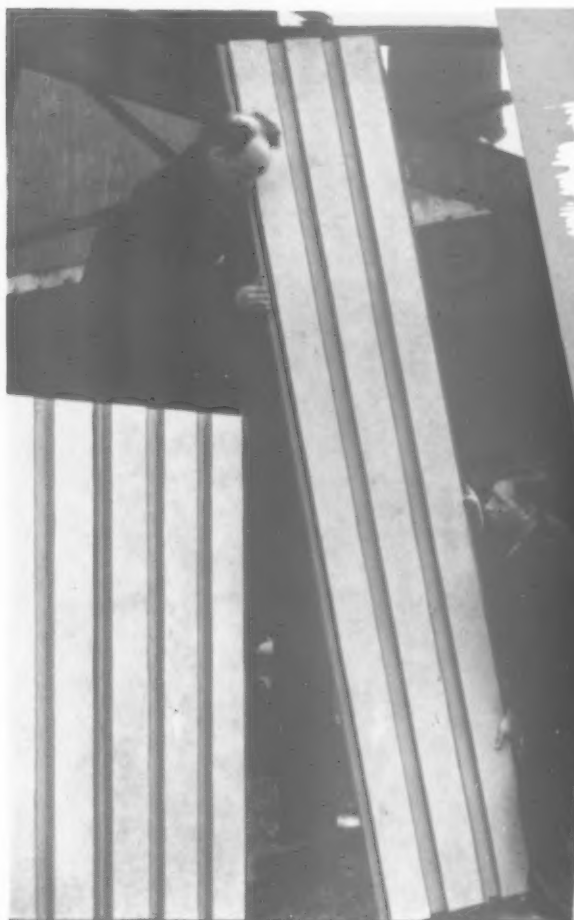
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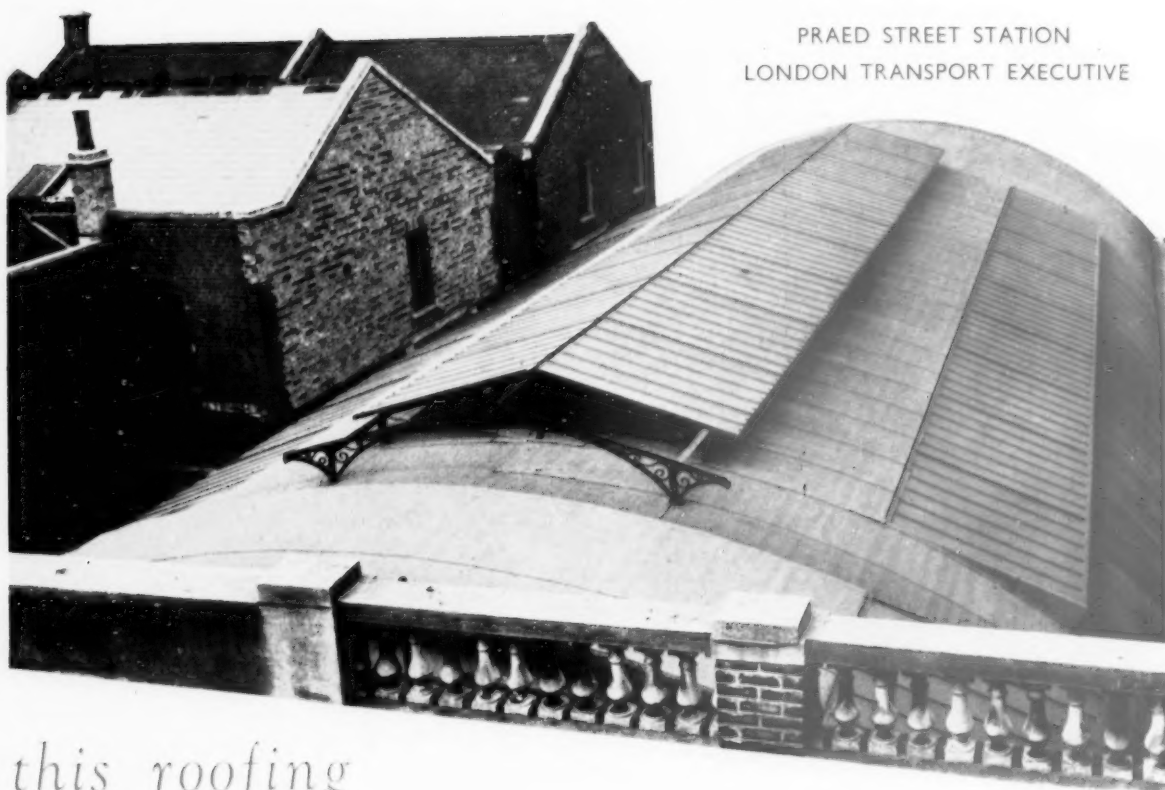
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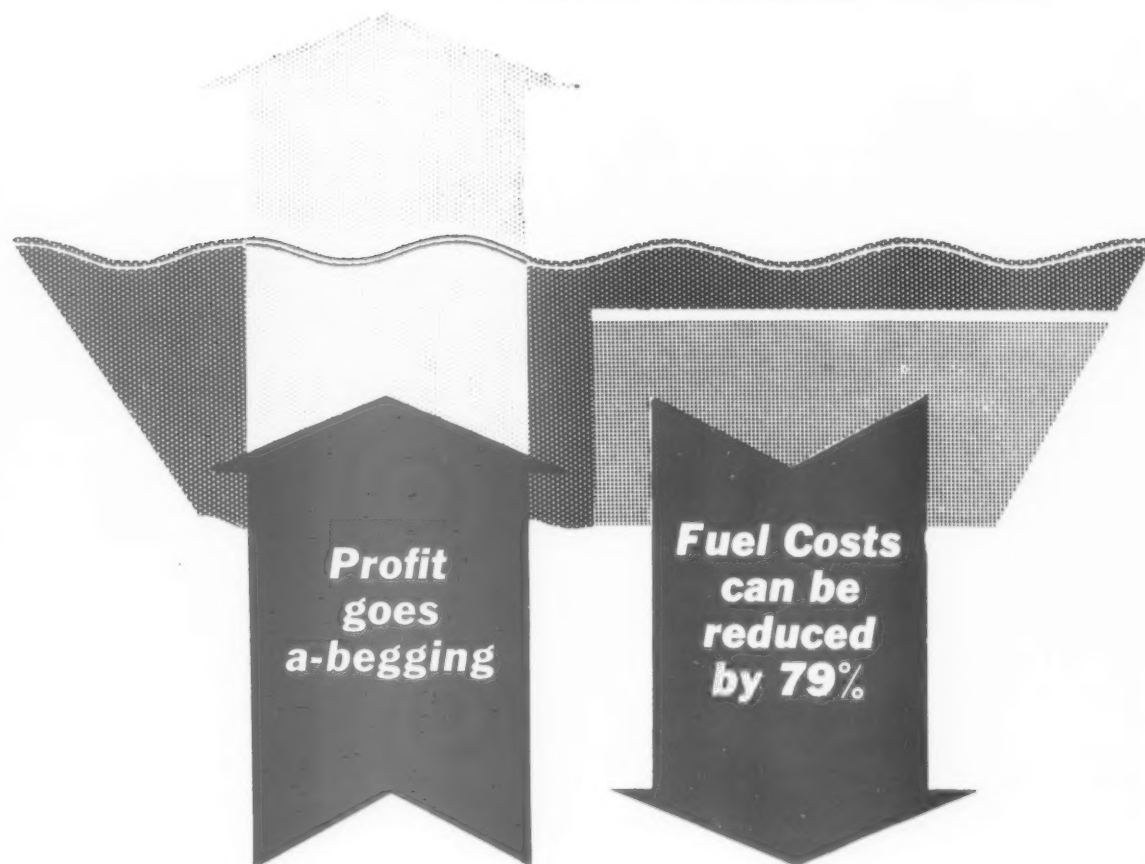
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THE ARCHITECT & BUILDING NEWS

November 12, 1953

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. The annual subscription, inland and overseas, is £2 15s. 0d. post paid: U.S.A. and Canada \$9.00

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OPERATION RESCUE

THE recent White Paper on Houses* has been received with many comments and some mixed feelings. Many of these are, to some extent, coloured by political bias and must be discounted proportionally by any who wish to assess the possible results of the adoption and legislative implications of the proposals made in the White Paper.

The suggestions officially made are three-pronged. The repair of essentially sound houses, arranged in the main through the medium of an increase in rents, based on a sort of sliding scale related to the repairs allowance already in existence, with a limit of about twice that of 1939. The making of existing houses fit for habitation, if necessary by improvements and conversions, mainly by extending and publicizing the grant system already existing under the Housing Act of 1949. And, thirdly, the general speeding-up of slum clearance by housing authorities.

All these proposals visualize the easing of the general overall housing problem by long-term dealing in various ways with existing usable dwellings, a policy we have for a long time stressed as an essential part of the whole housing question. What is deplorable is the delay which has occurred in the whole inter-related process. To instance only one relevant fact: soon after the war, in spite of material shortages and other difficulties, some 2,500,000 war-damaged houses were repaired, but the organization and drive behind this effort was allowed to dissipate and was not extended into the field of general repairs to dwellings that had suffered six years of enforced neglect. Had some sort of policy been adopted then the present state would not have been quite so bad. The situation has not been improved by intensive drives for new homes and the launching of other essential programmes. A properly planned balance

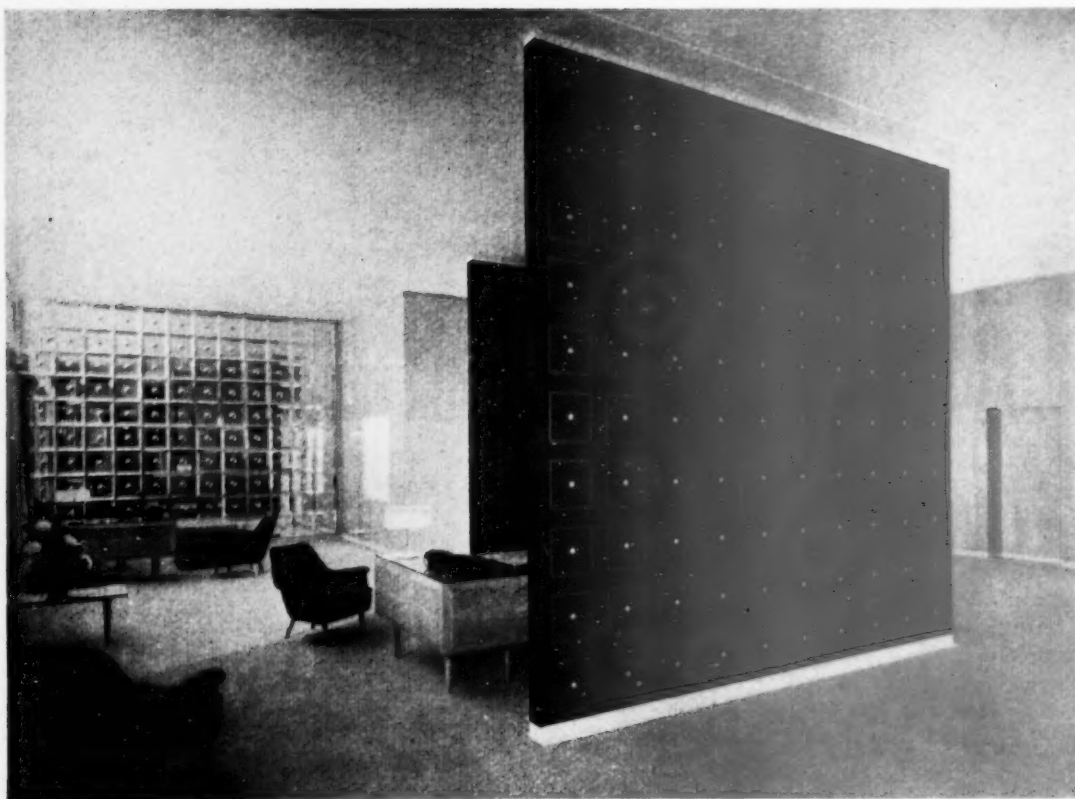
between these many-sided requirements is a national matter which need not have anything to do with politics.

One of the obvious questions that arises is whether an increase in rents based on a rating valuation system, and which is statutorily applied to repairs only, will find the landlords happy in their lot. Where property is regarded as an investment, and this applies to many small property owners as well as large ones, the increases proposed do not help the landlord to meet other increased costs, including even the cost of living. This apart from any criticism there may be of existing rating valuation. The only inducement is that a landlord may be able to ensure a minimum preservation of his property, though he knows the increases often will not meet the full consequences of the wartime enforced neglect. Tenants may be better off and being so may not object strongly against increased rents. As the scheme progresses it will be interesting to note effects on the property market and whether sales will increase and values rise.

If improvements under the 1949 Act grant system are to be extended to any great length the arrangements made with local housing authorities will have to be greatly improved and wider inducements will be required for action by owners. Slum clearance is a larger programme and one which must operate over a long term; it is so much overdue and so related to germane factors of space for housing in the hardcores of larger towns, decanting of population and even to the policy of new towns and provisions for overspill, that to stress the issues again becomes merely tiresome. Both these latter White Paper proposals concern the Local Authorities who will find as and when they are proceeded with, a necessity for a considerable increase of staff.

How will the various proposals affect the building industry and the architect? The latter will doubtless

* Houses, The Next Step. H.M.S.O. (Cmd. 8996-1953). 9d. net.



New showroom for Messrs. Kayser Bondor Ltd. in Albemarle Street which was opened on October 21. The designers were Misha Black and Sir Hugh Casson in collaboration. The partitions are in green and gold.

be involved in conversions and improvements made within very fine limits of costs, and have all the headaches of this sort of work, increased by being carried out against the demands of other programmes and against a rising market of costs and by means of an increasing scarcity of labour. The building industry will find related things at the operative end.

We have already pointed out that it is difficult to see how the various programmes recently mooted can be consummated simultaneously. Even if the overstressed new housing is limited to 300,000, or slightly under, per year, there are other demands than those now put out by the White Paper. An extended industrial building programme, already visualized by existing licence issues, the new policy of the Ministry of Education for the reconstruction of obsolescent schools to assist their new school programme are only two of these demands which the industry must meet.

The real test of the present proposals is whether there is man-power to carry them out and whether the materials required can be forthcoming. If all these things are really urgent and, after discounting the political facets, are essential for the well-being and survival of the country as a leader in the modern

world, is it not imperative that time and urgency were recognized as more essential even than cost? Has it yet been ascertained whether two, or even three, shift continuous processes, even with the man-power at present available would not be an economic advantage? An intensive drive to get the essential jobs done over, say, a three-year plan, might bring this country back to a real period of expansion, instead of existence within an ever-present half-and-half process of dealing with old and new problems at the same time. The background of any such drive is propaganda and its psychology applied to extend the will to get things straightened out and to curb the apathy of frustration caused by so many things always seen half-finished. Something like this intensive process is already operating with considerable effect in Germany, and our exports are already feeling the cold blast of increased competition.

Maybe our review of the White Paper has led us amongst avenues where it is easy to get lost, but we would suggest that exploration is still a habit of the human intellect and that the overturned stone of one White Paper, even if it does go as far as this one, is not enough.

EVENTS AND COMMENTS

THE PRESIDENT SPEAKS

You will have read the extracts from Mr. Howard Robertson's speech which were published last week. It was a good evening and everyone talked sense, even if some of them did it for rather too long. Mr. Robertson, I think, voiced the opinion of many of us that modern architecture is not good enough, that a good engineering solution is not necessarily good architecture and that buildings designed for widely different purposes should not look exactly like each other. If Mr. Robertson did not in so many words tell us what to do to alter it it is only necessary to look at his own designs to see that he follows no one, but in his many years' experience has built up for himself a personal architecture. It seems to me that it is this personal architecture which is lacking in most of the buildings which are being put up to-day. It is true that in housing and schools the rules are such that a personal style is indeed difficult to develop. It is, however, possible and as examples I give the housing estate at Beaumaris by Mr. Colwyn Foulkes, and the L.C.C. open air school at Bow Road by Farquharson and McMorran. Mere ingenuity of planning or construction is not enough. It is the spark of understanding that is vital.

We are lucky that our Minister of Works is so interested in architecture and the arts. Particularly in a government that has shown itself in other ways to be lukewarm about planning and architecture. It would be very unpleasant, to say the least, if in any future switch round of the Cabinet the present Minister were replaced by anyone less cultured or less interested in the development of good architecture.

The evening at the R.I.B.A. closed with the presentation of the Institute's London Bronze Medal for a building completed in 1952. This was awarded to Farquharson and McMorran for the school already referred to. Even allowing for the forgivable exaggerations of such an occasion all the parties involved in the job, from client to operative, seem to have enjoyed building this school and to have got along together extraordinarily well. Perhaps a building which is well designed and has the spark, which I mentioned earlier, does lead to happiness on the site, smiles all round and, sometimes, to a bronze medal.

THE JUBILEE BUILDING EXHIBITION

The 25th Building Trades Exhibition opens at Olympia on November 18. Once more it will completely fill the space and doubtless many of the same old stands will be on their accustomed sites and doubtless we shall all meet in the R.I.B.A. room kindly provided by a thoughtful management. A management which, furthermore, provides every member of the R.I.B.A. with the opportunity to give 3s 6d to the Architects Benevolent Society at absolutely no expense to himself. In your last R.I.B.A. Journal there was a ticket entitling you and a friend to free entry to the exhibition and free tea. For every ticket handed in the Building Exhibition will give 3s 6d to the A.B.S. Do not let this handsome generosity go unrecognized by your failure to present the ticket. In addition to all the usual stands there will be two special sections this year devoted to pre-stressing and pre-fabrication.

The A. & B. N. stand will be in the Grand Hall, Row G,



No. 145. On it, among other things, you will find the model of High Paddington.

CONTEMPORARY SPANISH ARCHITECTURE

The delayed exhibition at the Building Centre is now open and will remain so until November 21. Many of the photographs are excellent but I find the buildings disappointing. Here, if you like, is a personal architecture, but one which with very rare exceptions looks backwards and never forwards. Indeed, the best of the buildings shown are those which most closely follow traditional types, and here I am thinking of some pleasantly detailed courtyards and a block of almshouses. On the other hand some of the buildings have the harsh monumentality associated



British Standards House, 2, Park Street, W.1, where all departments and services of B.S.I. are now centralized.

with the works of Hitler and Mussolini. The examples of blocks of flats are heavy and lifeless and one cannot help wondering whether this is a truly representative exhibition. It is a great pity that the students' work which was expected was not in the end included in the exhibition for there, if anywhere, the trend of Spanish architecture could have been examined. No doubt Spanish architects are hampered in their work by shortages of modern materials but this does not explain their lack of sensibility in the handling of traditional materials. One would have thought that with the splendid architectural heritage, that is illustrated in the historical section of the exhibition, a nation of traditional architects would have made a better showing. We must, however, be grateful to the Spanish Government and to the Building Centre for allowing us to see this exhibition for it is news from Spain and full of interest.

CHRISTMAS CARDS

If you do not design your own and have not already bought cards from the A.B.S., may I draw your attention to a charming series available from the United Nations International Children's Emergency Fund (UNICEF)? There are six cards; a set of five showing children playing in different parts of the world, drawn by Lewitt-Him, the sixth is an abstract design specially drawn by Henri Matisse. Cards are made up in sets of ten, price 7s 6d. Further particulars from UNICEF Greeting Card Fund, 39, Kingsway, W.C.2.

Calling on Miss Solly for news of the A.B.S. Ball (tickets going better than ever before), I found her in the most tremendous form, having just returned from Copenhagen where she had been acting as manager and reserve for the English Women's Fencing Team. Not only did they beat Denmark, and for the first time ever on Danish soil, but they had a wonderful time as well. One Copenhagen newspaper said that the two fastest things in town were Neville Duke—on a demonstration tour—and the English Ladies' Fencing team in action.

I shall never dare to cross swords with Miss Solly again.

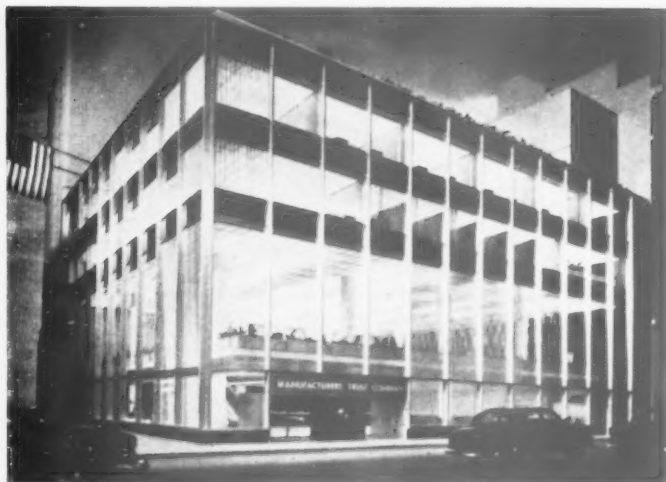
FRANCO-BRITISH UNION OF ARCHITECTS

This jolly association of French and British architects offers a prize annually in a competition set by the "Professeur de Théorie" at the Ecole des Beaux Arts for French and British architectural students. Other prizes are given by the French Government. An exhibition of the prize-winning designs will be opened at the R.I.B.A. on November 17 and will remain open until November 21. Monsieur René Varin, Cultural Attaché at the French Embassy, will open the exhibition and Sir Patrick Abercrombie will be in the chair.

In the past this competition, which consists of a sketch design and a three-week subject, has not attracted a very strong entry and some of the work submitted has been of deplorably low standard. Let us hope that this year's designs will be better. For, if the Union is unable to attract a representative entry from the architectural students of this country it might be better to let the prize lapse.

THE LARGE BURGH OF DUMFERMLINE

I hear that the Burgh Council is to consider the re-organization of its technical departments. In the past all



The proposed new building of Manufacturers Trust Company, New York. Architects: Skidmore, Owings and Merrill. The building is to cost 3 million dollars, and is almost an air conditioned glass box, giving a clear view of internal activity within the bank. Mechanical, electrical and acoustical requirements have been integrated into a luminous ceiling. The sealed glass walls will be washed from scaffolding operated from built-in roof equipment.



Frank Lloyd Wright with the model of his projected 18-storey office building, Price Tower, Bartlesville, Oklahoma, which is one of the 16 models in the exhibition of F.L.W.'s work held recently in the Solomon R. Guggenheim Museum, New York.

the architecture has been done under the supervision of the engineer. It is now suggested that there should be an architect and planner to look after the architecture and an engineer to do the engineering. I have yet to see really good development work from a council where the architect's department is supervised by an engineer. Let each profession follow its own particular skill. On, Dumfries! on!

ARCHITECTS AND BUILDING CRAFTSMEN

An interesting course is being held at the Hammersmith School of Building and Arts and Crafts. It is designed to bring designer and craftsman closer together. In general, building schools have been slow to realize changes in architectural design and students frequently spend much time and trouble making things and carrying out manoeuvres which no architect would now dream of designing. On the other hand, architects seldom have the time or opportunity to study developments in craft training which have taken place as a result of the introduction of powered hand tools and new materials. The course at Hammersmith is designed to cover this ground. Mr. Robert Elliott, who

will be in charge of the course, is, by reason of his experience as a builder and instructor in building construction, well qualified for his task.

SOMETHING WORTH COMPETING FOR

On another page you will find a preliminary notice of a most exciting competition which is being organized by McGill University with generous financial support from a firm of Canadian distillers. With a first prize of \$5,000 and a second of half that amount for designing a house for a family of five, architects may consider that it is worth while taking a lot of trouble.

TAILPIECE

The fourth chimney of Battersea power station was completed last week and proudly flew the White Ensign, a tradition which seems to be less well observed in London than in the provinces. The practice varies from district to district, some flying the flag when the ridge piece is in position and some waiting until the highest point, usually a chimney stack, is reached. Some European countries use an evergreen wreath on the same occasion. Are wreaths ever used in this country?

ABNER

NEWS OF THE WEEK

Notes from the Minutes of the R.I.B.A. Council Meeting held on November 3

Sessional Papers

The Secretary reported that Professor Charles Madge would not after all, be able to give his paper on "Sociology and Architecture" on March 2, 1954. It was agreed to consider an alternative subject and speaker.

R.I.B.A. Dinner

As already approved, the R.I.B.A. Dinner will be held at Grosvenor House on Friday, February 19, 1954.

It was agreed that the time should be 7 p.m. for 7.30 p.m., that the price of the tickets should be 32s 6d each, exclusive of wines, cigars, etc., and that dress should be evening dress with orders and decorations, or uniform, if desired, for those entitled to wear it.

R.I.B.A. Reception

In view of the date of the Annual Dinner in February and of the British Architects' Conference in May, it was agreed that there should be no R.I.B.A. Reception in 1954.

Exhibitions

On the recommendation of the Public Relations Committee, it was agreed that an exhibition on Fire Prevention, arranged by the Department of Scientific and Industrial Research, should be shown at the R.I.B.A. during February, 1954. It was also agreed to show an exhibition on the Rebuilding of Warsaw, offered by the Polish Cultural Institute, for a period in the late spring of 1954.

Council for Codes of Practice for Buildings: Future Organization

A draft plan for the future organization of the Council for Codes of Practice for Buildings, submitted by the British Standards Institution, was considered. The plan provides for the administrative responsibility to be assumed by the British Standards Institution and for the Codes of Practice Council to continue to be responsible for Codes of practice Committees and for all drafting work, while being integrated into the organization of the B.S.I. immediately subordinate to the General Council of the B.S.I.

It was agreed to approve the proposed organization on the understanding that the codes of Practice Council and its Committees retain a wide measure of autonomy in the work of drafting codes of practice.

R.I.C.S.

At a general meeting held at the Royal Institution of Chartered Surveyors on November 9, His Royal Highness The Duke of Edinburgh was unanimously elected as Honorary Member of the Institution.

APPOINTMENT

Mark Hartland Thomas, O.B.E., M.A., F.R.I.B.A., M.S.I.A., has been appointed Secretary to the Modular Society.

EXHIBITION

"Brief City," the "Observer" film of the Festival of Britain South Bank Exhibition, will be shown at the Building Centre, Store Street, Tottenham Court Road, from Monday to Friday, November 23 to 27, 1953, daily at 5.30 p.m. and 6.15 p.m. Admission free without ticket.

COMING EVENTS

The Housing Centre

November 17 at 4 p.m. Discussion on "The Future of Almshouses," Chairman: Sir Ernest Rock Carling, at 13, Suffolk Street, Haymarket, S.W.1.

The Royal Institution of Chartered Surveyors.

November 17 at 6.30 p.m. Annual Dinner of the Chartered Quantity Surveyors, at Grosvenor House, Park Lane, W.1. Principal guest and speaker, The Right Honourable Sir David Eccles, K.C.V.O., M.P., Minister of Works.

Royal Society of Arts

November 18 at 2.30 p.m. Opening of the 200th session. H.R.H. The Duke of Edinburgh, K.G., President of the Society, in the chair. Inaugural Address, "The First President," by the Right Hon. the Earl of Radnor, K.C.V.O., Chairman of Council, at John Adam Street, Adelphi, W.C.2.

Society of Chemical Industry.

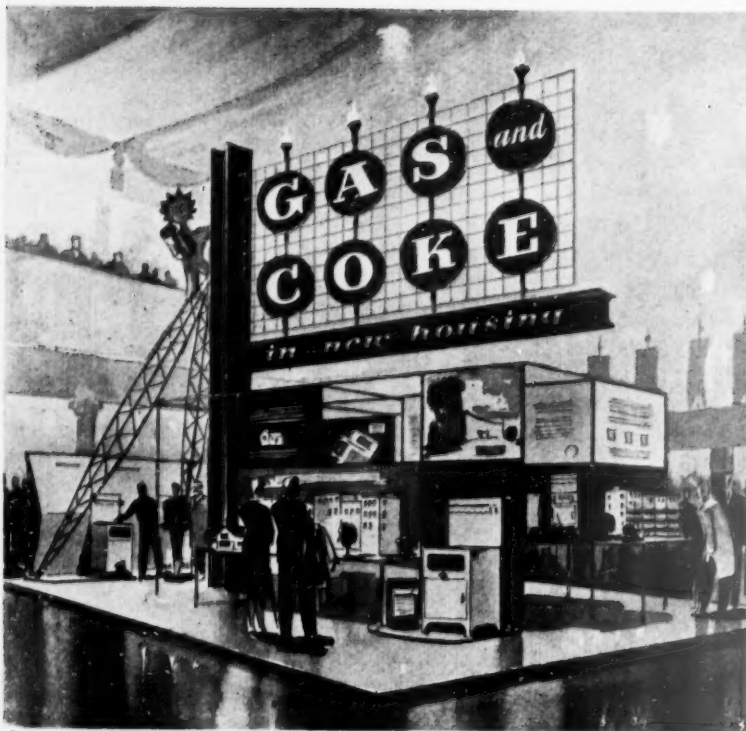
November 19 at 6 p.m. Talk on "Reasons and Methods for Timber Preservation," by E. H. Nevard, British Wood Preserving Association, at the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1.

Students' Planning Group

November 19 at 6.30 p.m. Talk on "Architecture and the Development Plan," by Professor R. Gardner-Medwin, B.Arch., F.R.I.B.A., M.T.P.I., Professor of Architecture at Liverpool University, at 28, King Street, Covent Garden, W.C.2.

COLD STORE AT ACTON

We regret that the news report of T. Wall and Sons, Ltd.'s new cold store on page 523 of October 29 was printed without the architects' knowledge; their correct style and title is: J. Stanley Beard, Bennett and Wilkins.



BUILDING EXHIBITION STANDS

1. Stand designed by Exhibitions Department, Gas Council.
2. Stand designed by Noel Moffett.
3. D. Anderson & Son Ltd., of Manchester, stand designed by Jack Diamond, consultant Misha Black, mural and typog-

Preliminary Announcement of Competition

A competition has been announced in Canada for a "Canadian House of To-morrow," open to Canadian, British and European architects, but not to Americans or Russians. The competition is sponsored by McGill University School of Architecture, and the prizes, which are offered by Calvert Distillers, Ltd., are \$5,000 for the best entry and \$2,500 for each of the best Canadian and European entries. There will be ten honourable mention awards of \$200 each.

The assessors, whose names are not yet known to us, will be a three-man panel, two Canadian, one European. Professor John Bland, Director of the McGill School of Architecture, is reported as saying that the competition is inspired by the Massey Report, which referred to the fact that although architecture has the greatest influence of all the arts on the manner of living, it is largely ignored by the public. Professor Bland said that "by attracting world-renowned architects we shall succeed in developing the widespread interest in the subject which is necessary if we are to develop architecturally as we have in other arts." Rules will call for house to be in good taste, simple in design, centrally heated and neither impractical to maintain nor too costly to build.

It would be for a family with three children under 15 years of age, and a car. We are thinking of a house in a small town or a suburb of a big city. It would have a garden and a fair amount of space about it. Entrants he said, should allow for a climate of intense variability.

Associated with Professor Bland, who is professional adviser in the competition, is Pierre Morency, director of the School of Architecture, L'Ecole des Beaux Arts. The competition will open about December 1 and close on April 1, 1954. Further details will be published when known.

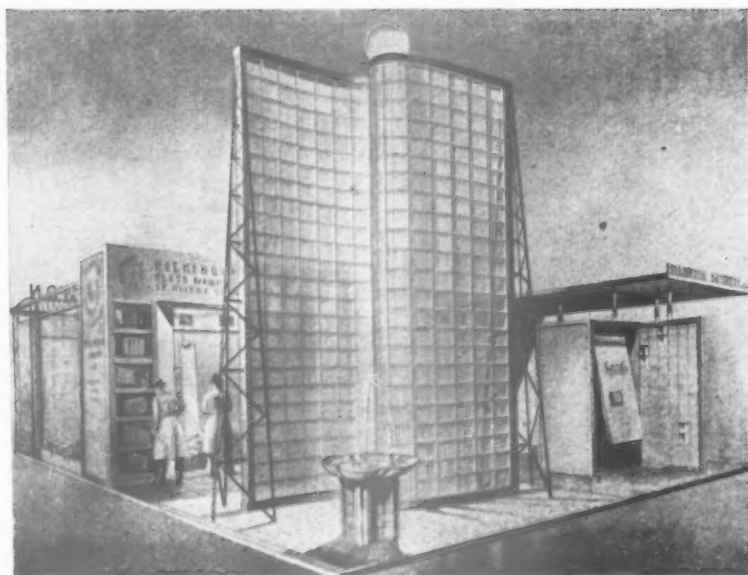
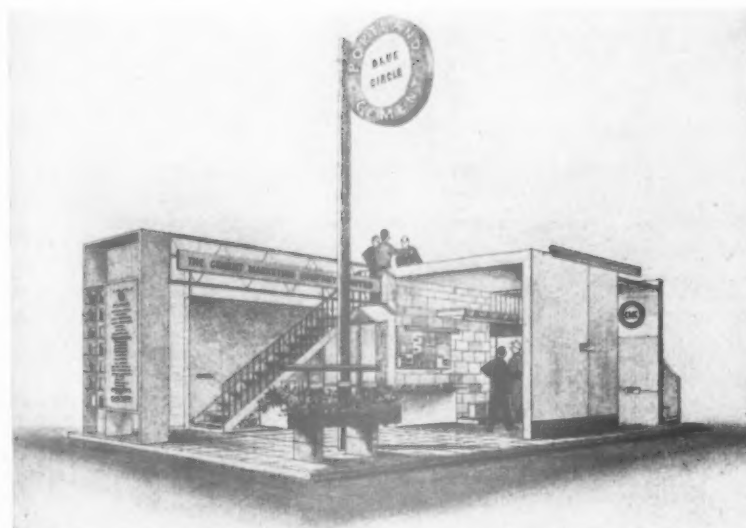
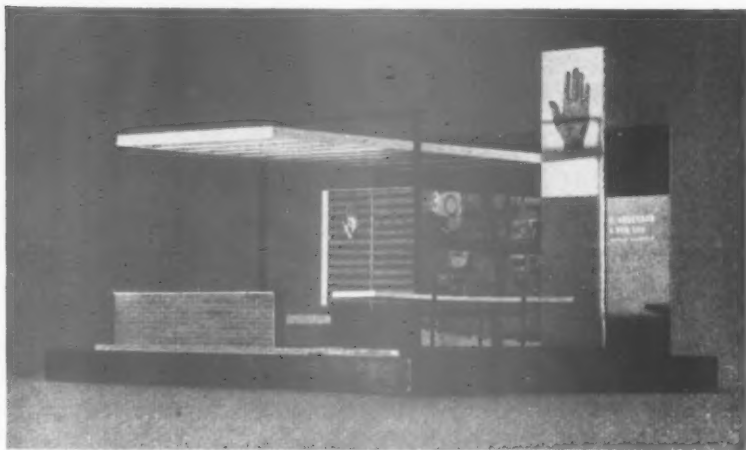
Housing Progress, September

The Housing Progress Reports presented to Parliament as White Papers by the Minister of Housing and Local Government and the Secretary of State for Scotland, show that the number of permanent houses completed in Great Britain during September was 28,516 compared with 22,323 in September, 1952.

In the first nine months of 1953, 225,863 permanent houses were completed compared with 171,093 in the same period of 1952.

graphy by Jock Kinneir, all of Design Research Unit.

4. Stand designed by Kenneth Bayes and Jack Diamond of Design Research Unit.
5. Stand for Pilkington Bros. Ltd. designed by S. M. S. Sternfeldt.



Improving Old Schools

Miss Florence Horsbrugh, the Minister of Education, said at Leamington on October 31 that next year local education authorities should be able to do more to improve old schools.

The Minister said that the total allocation for minor building works (those costing less than £7,500) in next year's educational building programme had been increased by 20 per cent to about £6½ millions; and she reminded authorities that they needed no capital allocation for repairs and maintenance (such as repainting schools, patching walls or ceilings, repairing playgrounds) but should make provision for these in their estimates as usual.

New building could not yet be authorized solely for reorganizing all-age schools, but the increasing number of new schools that had come into use had greatly reduced the number of children in them. The figures for 11-year-old children in all-age schools had come down from more than 420,000 in January, 1946, to less than 296,000 in January, 1953; the number of children of 13-14 years had been more than halved: from 9,572 to 4,588.

In a reference to local authority awards to universities, the Minister said that 118 of the 146 local education authorities had adopted her proposal that passes in two subjects at advanced level in the General Certificate of Education, together with evidence of general education, should be regarded as the appropriate minimum standard for a local award. 132 authorities had accepted her suggestion that the rate of grant for local awards should be the same as those for State Scholarships. In each case, the remaining authorities will be reconsidering their arrangements.

Mr. F. G. West's Appointment

Mr. F. G. West, A.R.I.B.A., at present second-in-command in the Schools Division of the L.C.C.'s Architect's Department, is to be appointed Senior Architect, General Division, on the retirement of Mr. W. J. Durnford, F.R.I.B.A., at the end of January, 1954. The salary scale (of which Mr. West will be at the maximum) is £1,650 rising by £100 annually to £1,950.

To Mr. West must go a large share of the responsibility for the development of the Schools Division which he joined on December 1, 1950, before which he was one of the six Area Architects in the service of the Middlesex County Council. He had been in private practice—as articled pupil and as a qualified assistant—for 9 years before entering the Middlesex County Architect's Department in 1937. Mr. West is 43 years of age. During the war he served as a major in the Royal Engineers.

The Silver Jubilee BUILDING EXHIBITION

Guide to Olympia

November 18—December 2

THE exhibition will be officially opened at 12 noon on Wednesday, November 18 by the Minister of Housing and Local Government, the Right Honourable Harold Macmillan, M.P. The President of the R.I.B.A., Mr. Howard Robertson, M.C., A.R.A., S.A.D.G., will be in the chair. A vote of thanks is to be proposed by Mr. Wilfred Horsfall, President of the N.F.B.T.E., Sir Luke Fawcett, immediate past president of the N.F.B.T.E., will second the motion. The Exhibition will be open to the public from ten o'clock in the morning, the same day.

* * *

The R.I.B.A. Clubroom is over the Addison Road entrance, the same position as last time.

* * *

The President of the N.F.B.T.E., Mr. Wilfred Horsfall, will be "at home" to members and their friends on the Federation's stand, Nos. 478-482 in the Grand Hall Gallery, on Tuesday, November 24, from 2.30 p.m.

* * *

The President of the L.M.B.A., Mr. Gerald Hill, with Mrs. Hill, will be "at home" to members of the L.M.B.A. and of the National Federation in the Clubroom to the right of the Addison Road entrance at 3 o'clock on Wednesday, November 18. The Club on that day will be "manned" by Mr. Gerald Hill's own area, Central Area No. 5.

Other L.M.B.A. Area Days are given in the right hand column.

* * *

The Architects Benevolent Society stand has been presented by Mrs. M. A. Montgomery, and, as is usual, its primary concern is to raise money for the General Fund. This is being done by the sale of some specially designed Christmas cards, some serious, some not, and some suitable for children. Also on sale is "The Architect's aid," a table designed and presented by Richard Henniker, F.R.I.B.A., for rapidly computing floor areas without having to rely on one's arithmetic; it costs 5s. The practice of architects presenting their own paintings for sale has been continued, and one can also buy tickets for the A.B.S. Ball, held in aid of the scheme for providing homes.

* * *

The following Government Departments are exhibiting: British Railways, Stand 397Z/E; H.M.S.O., 451/GG, Ministry of Fuel and Power, 401, 402/GG; M.H.L.G., 453, 455/GG; M.O.W., 445-449/GG.

The department of Scientific and Industrial Research stand is divided between the Fire Research Station and the Building Research Station. A variety of subjects will be covered, including a demonstration of the measurement of the fire-resistance of materials, with particular emphasis on the behaviour of prestressed concrete, the measurement of dampness with reference to the application of finishes to new structures, and a demonstration of tests on various materials and building methods. The stands are Nos. 448-450, 454-456, in the Grand Hall Gallery.



Mrs. M. A. Montgomery, Managing Director of the Building Trades Exhibition Ltd. Mrs. Montgomery, who has been a director of the firm since 1947, is a daughter-in-law of the late H. G. Montgomery who, with his brother, the late H. C. Montgomery, founded the business with the first Building Exhibition in 1895.

*

Two special issues of *The Architect and Building News* will be on sale during the Exhibition at the A. & B.N. stand, No. 145 in the Grand Hall. The issue of November 19 will contain a report of exhibits and stands. A review of the Exhibition by a team of specialists will be a feature of issue November 26.

*

Metropolis Garages Ltd. of Maclise Road, Olympia, London, W.14, telephone number Shepherds Bush 5385-6-7, are Olympia's official garage—car season tickets at reduced prices are issued for the convenience of Exhibitors and other persons using this garage regularly in connection with the Exhibition who desire the facility of re-admission, overnight garage, etc. The Car Season Ticket guarantees admission at any time and covers day and night garage if required.

*

Hotel Accommodation Service—HOTAC—represent all London Hotels with the exception of the Lyons Group, and handle advance reservations and immediate bookings of accommodation. Applications for reservations should be made to 93, Baker Street, London, W.1, telephone number Welbeck 2555.

*

This year the facilities at Olympia will include a Reception Room and Lounge available to all visitors.

*

L.M.B.A. Area Days following Central Area No. 5 on November 18 are as follows: North-Western Area, Thursday, November 19; South-Western Area, Friday, November 20; Central Area No. 3, Monday, November 23; South-Eastern Area, Tuesday, November 24; Central Area No. 4, Wednesday, November 25; Central Area No. 1; Thursday, November 26; Southern Area, Friday, November 27; Northern Area, Monday, November 30; North-Eastern Area, Tuesday, December 1; Central Area No. 2, Wednesday, December 2.

ALPHABETICAL LIST OF EXHIBITORS

This alphabetical list with stand references relates to the plans of the exhibition shown on pages 564, 565 and 566. The stand number is followed by the row letter and the initial of the hall in which the stand may be found, the suffix G indicates that the stand is in the gallery, e.g., 63 G/G is Stand No. 63, row G, Grand Hall; 406 /GG, Stand No. 406, Grand Hall Gallery. /N—National Hall, /NG—National Hall Gallery, /E—Empire Hall and /EG—Empire Hall Gallery.

A

A. B. C. D. (Raynes Park) Ltd.—275 N/N
A.B. Mould & Construction Co. Ltd.—163 G/G
A.C.E. Machinery Ltd.—283, 284 O/N
Accrington Brick & Tile Co. Ltd.—158 G/G
Acme Flooring & Paving Co. (1904) Ltd.—418 & 420 /GG
Acrow (Engineers) Ltd.—107, 108, 109 E/G
Adam & Harvey (Rapid Hammers) Ltd.—319 R/N
Adamite Co. Ltd.—537 /NG
Adametz Ltd.—180 H/G, 205 J/G
Aero Research.—653 /EG
Aga Heat Ltd.—5, 6 A/G
Aidas Electric Ltd.—79 D/G
Air Pumps Ltd.—379 X/E
Airscrew Co. & Jicwood Ltd.—548 /NG
Alabastine Co. (British) Ltd.—280 O/N
All Purpose Building Co. Ltd.—621 /EG
Allam, E. P., & Co. Ltd.—325 R/N
Allied Ironfounders Ltd.—636, 637 /EG
Anderson, D., & Son Ltd.—129 F/G
Anselm Odling & Sons Ltd.—137 F/G
Architect & Building News—145, G/G
Architects Classfile Ltd.—252 L/G
Architects Benevolent Society—406 /GG
Architectural Press Ltd.—355 T/N
Armstrong Cork Co. Ltd.—46 C/G
Artificial Stone & Concrete Co. Ltd.—434 /GG
Ascot Gas Water Heaters Ltd.—272 N/N
Ashdowns Ltd.—488, 490 /GG
Association of Building Technicians—603 /EG
Association of Vermiculite Exfoliators—545 /NG
Atomic Draught Sealing Co.—477 /GG
Austin & Trimmingham—517 /NG
Aveling-Barford Ltd.—217 K/G
Avery, J., & Co. (Est. 1834) Ltd.—414 /GG
Avon India Rubber Co. Ltd.—338 S/N

B

Barrmor Tool Works Ltd.—399 Z/E
B.A.S.A. Rowing Club—536 /NG
Bath & Portland Stone Firms Ltd.—42 C/G
Bellrock Gypsum Industries Ltd.—347 T/N, 638, 639 /EG
Benford Ltd.—71, 72 D/G
Benn Brothers Ltd.—7 A/G
Bennett, S., & Son (Wood Flooring) Ltd.—461, 463 /GG
Bentley & Garforth.—360 U/E
Benton, Edward, & Co. Ltd.—408 /GG
Berend & Berend Ltd.—65 C/G, 357 Port-cullis Avenue
Beresford, James, & Son Ltd.—262, 263 M/N
Berger, Lewis (G.B.) Ltd.—311 Q/N
Berkhamsted Brick Co. Ltd.—58 C/G
Berry, J., & Sons Ltd.—413 /GG
Berry Wiggins & Co. Ltd.—416 /GG
Binns, A. J., Ltd.—262, 263 M/A
Bitumen Industries Ltd.—1 A/G
Blundell Spence & Co. Ltd.—339, 340 S/N
Bolton Gate Co. Ltd.—184 H/G, 201 J/G
Books & Careers.—519 /NG
Bourner, S. H., & Co. (Engineers) Ltd.—567 N/G
Braby, Fred'k., & Co. Ltd.—229 K/G
Bridges, S. N., & Co. Ltd.—323 R/N
Briggs, William, & Sons Ltd.—32, 33 B/G
British Art Tile Co. Ltd.—270A N/N
British Building & Engineering Appliances Ltd.—164, 165 G/G

British Congoleum Ltd.—442, 444 /GG
British Electrical Development Assn.—103, 104 E/G
British Equipment Co. Ltd.—210 J/G, 175 H/G
British Gates.—521, 523 /NG
British Hermeseal Ltd.—648 /EG
British Hoist & Crane Co. Ltd.—111 E/G
British Iron & Steel Federation.—508, 510, 512 /NG
British National Electrics Ltd.—381, 382 X/E
British Plaster Board.—94 E/G
British Plumber Ltd.—178 H/G, 207 J/G
British Standards Institution.—475 /GG
British Railways.—397 Z/E
British Rubber Development Board.—34 B/G
Briton Brush Co. Ltd.—353 T/N
Brookman, R. S., Ltd.—390 Y/E
Brown Clements Productions Ltd.—649 /EG
Brush Aboe Group Services Ltd.
Brush Group.—312, 313 Q/N
Bryce White Co. Ltd.—93 E/G
B.S.A. Motorcycles Ltd.—542 /NG
Builder, The, Ltd.—141 G/G, 620 /EG
Building Crafts Training School.—531, 533 /NG
Building Industries and Scottish Architect.—234 K/G
Building Industry Distributors.—528, 530 /NG
Burgess Products Co. Ltd.—642 /EG
Burtain Ltd.—15 A/G
Byrd, A. A., & Co. Ltd.—343 S/N, 349 T/N

C

Cafferata & Co. Ltd.—38 B/G
Calders Ltd.—330 R/N
Callow & Keppich Ltd.—281 O/N
Candy & Co. Ltd.—138 F/G
Cape Asbestos Co. Ltd.—261 M/N
Carnor Ltd.—167 H/G
Carpenters Co.—531, 533 /NG
Carter Group of Companies.—85 D/G
Cascelloid Ltd.—551 /NG
Caxton Publishing Co. Ltd.—483 /GG
Cayless Bros. (Battersea) Ltd.—17, 18 B/G
C.D. Productions Ltd.—656 /EG
Cellactite & British Uralite Ltd.—245 L/G
Celotex Ltd.—30 B/G
Cement & Concrete Assn.—302 P/N
Cement Marketing Co. Ltd.—130 F/G
Central Tool & Equipment Co. Ltd.—422 /GG
Chadwick & Shapcott Ltd.—190 H/G, 195 J/G
Chamberlain Weatherstrips Ltd.—464 /GG
Chance Bros. Ltd.—186 H/G, 199 J/G
Chaseside Engineering Co. Ltd.—171 H/G
Cheecol Processes Ltd.—565 /NG
Chubb & Sons' Lock & Safe Co. Ltd.—8 A/G
Churchill H. & D., Ltd.—385 X/E
Cimex-Fraser Tuson Ltd.—185 H/G, 200 J/G
Clarke Ellard Engineering Co. Ltd.—498 /GG
Coal Utilisation Council.—260 M/N
Cole, E. K., Ltd.—524 /NG
Cole, E. R., Ltd.—435 /GG
Colt, W. H. (London) Ltd.—232 K/G
Colthurst, Symons & Co. Ltd.—84 D/G
Columbus-Dixon Organisation.—105 E/G
Compactom Ltd.—538, 540 /NG
Concrete Ltd.—623 /EG
Condurp Ltd.—535 /NG
Conex-Terna Ltd.—75 D/G
Consolidated Pneumatic Tool Co. Ltd.—215, 216 K/G

Cooke, John, & Son Ltd.—532 /NG
Cooksley, A., & Co. Ltd.—384 X/E
Copperad Ltd.—124 F/G
Copper Development Ass'n.—307 Q/N
Coronet Tool Co.—651 /EG
Costain Concrete Co. Ltd.—314, 315 Q/N
Craig & Rose Ltd.—380 X/E
Crane Ltd.—268 N/N
Creffield, C. V. & Co. Ltd.—428 /GG
Crittall Manufacturing Co. Ltd.—98 E/G
Crockatt, W., & Sons Ltd.—550 /NG
Cuprinol Ltd.—335 S/N

D

Dallow & Lambert & Co. Ltd.—372 W/E
Danaura Ltd.—547, 549 /NG
Danckaerts Woodworking Machinery Ltd.—396 Y/E
Dandridge, Arthur, F., Ltd.—443 /GG
Deaves, R. J.—415 /G.G., 541 /NG
Department of Scientific & Industrial Research.—448, 450, 454, 456 /GG
Dimplex Ltd.—481 /GG
Dixon Hawkesworth Ltd.—395 Y/E
Dohm Ltd.—52 C/G
Dominion Machinery Ltd.—362 V/E
Downing, G. H., & Co. Ltd.—152, 153 G/G
Drew, Clark & Co. Ltd.—48 C/G
Durasteel Ltd.—316 Q/N
Duresco Products Ltd.—239 L/G

E

Easicle Porcelain Enamel (1938) Ltd.—177 H/G, 208 J/G
Eastwoods Ltd.—154 G/G
Eclipse Rail-Track Ladder Co. Ltd.—123 F/G
Econa Modern Products Ltd.—25 B/G
Economic Water Softeners Ltd.—24 B/G
Edison Swan Electric Co. Ltd.—386 X/E
Ellis, John, & Sons Ltd.—285 O/N
Elsy & Gibbons Ltd.—50 C/G
English Clock Systems Ltd.—155 G/G
English Joinery Manufacturers Ass'n.—142 G/G
Esavian Ltd.—40 B/G
Eustace & Partners Ltd.—61 C/G
Expanded Metal Co. Ltd.—95 E/G
Expandite Ltd.—225 K/G

F

Federated Employers Press Ltd.—4 A/G
Federation of Clinker Block Manufacturers.—409 /GG
Federation of Master Builders.—432 /GG
Ferguson, Harry, Ltd.—378 X/E
Ferrodo Ltd.—55 C/G
Fibreglass Ltd.—241 L/G
Finch, B., & Co. Ltd.—12, 13, 14 A/G
Finlock Gutters Ltd.—354 T/N
Fire Protection Association.—407 /GG
Fishburn, L.—543 /NG
Fisons Ltd.—54 C/G
Flavel, Sidney, & Co. Ltd.—266 N/N
Flexaire Ltd.—143 G/G
Flexible Drive & Tool Co. Ltd.—214 K/G
Flextool Engineering Co. Ltd.—35 B/G
Forsters Machine Co. Ltd.—465, 467 /GG
Frenger Ceilings Ltd.—529 /NG
Froy, W. N., & Sons Ltd.—304, 305 Q/N
Furniss & Co.—534 /NG

G

Gardiner, Sons, & Co. Ltd.—89 D/G
Gas Council.—300 P/N

G. & L. Machinery Ltd.—394 Y/E
 Gill's Engineers Ltd.—612, 613, 614 /EG
 Gliksten, J., & Son Ltd.—144 G/G
 Goodenough Contractors' Machinery Ltd.—
 321, 322 R/N
 Goodlass, Wall & Co. Ltd.—492, 494 /GG
 Gotham Co. Ltd.—273 N/N
 Grangersol Ltd.—479 /GG
 Greenwood's & Airvac Ventilating Co. Ltd.—
 192 H/G
 Greenwood & Hughes Ltd.—194 J/G
 Grey, Charles C.—647 /EG
 Guiterman, S., & Co. Ltd.—168 H/G
 Gulf Radiators Ltd.—244 L/G
 Guyrex Equipment Ltd.—391 Y/E
 Gyproc Products Ltd.—149 G/G
 Gypsum Mines Ltd.—336 S/N

H

Hadfields (Merton) Ltd.—49 C/G
 Hamilton & Co. (London) Ltd.—346 T/N
 Harvey, G. A. & Co. (London) Ltd.—
 150, 151 G/G
 Haycraft, M. & L. Ltd.—563 /NG
 Heat Pump.—401, 402 /GG
 Heller & Sons (Engineers) Ltd.—560 /NG
 Hemel Hempstead Engineering Co. Ltd.—
 253 L/G
 Hesketh Gordon Ltd.—278 N/N
 Heyman, B.—437 /GG
 Heywood, W. H. & Co. Ltd.—484, 486 /GG
 Hickson's Timber Impregnation Co. (G.B.)
 Ltd.—156 G/G
 Highways Construction Ltd.—56 C/G
 Hilger & Watts Ltd.—553 /NG
 Hill, E., Aldam & Co. Ltd.—327, 328 R/N
 Hilmor Ltd.—23 B/G
 H.M.S.O.—451 /GG
 Holcon Ltd.—47 C/G
 Holloway Metal Roofs Ltd.—462 /GG
 Holoplast Ltd.—615 /EG
 Hope, Henry & Sons Ltd.—90, 91 D/G
 Houghton Engineers Ltd.—358 U/E
 Housing Centre—539 /NG

I

Ide, T. & W., Ltd.—287 O/N
 Ideal Boilers & Radiators.—310 Q/N
 Illustrated Carpenter & Builder.—352 T/N
 Imperial Chemical Industries Ltd.—86, 87
 D/G
 Impregnated Diamond Products Ltd.—377
 X/E
 Interoven Stove Co. Ltd.—9 A/G
 Interwood Ltd.—389 Y/E
 Institute of Quantity Surveyors.—440 /GG
 Institute of Registered Architects.—546
 /NG

J

Janitor Boilers Ltd.—247 L/G
 Jenolite Ltd.—436 /GG
 Jensen & Nicholson Ltd.—329 R/N
 Johnson, G., Bros. Ltd.—125 F/G
 Johnson's Reinforced Concrete Engineering
 Co. Ltd.—45 C/G
 Joyce, W. N., & Sons Ltd.—243 L/G

K

Kango Electric Hammers Ltd.—179 H/G,
 206 J/G
 "Kemeny"—607 /EG
 Kennedy, W. Ltd.—233 K/G
 Kerner-Greenwood & Co. Ltd.—337 S/N
 Key Engineering Ltd.—69 D/G
 Kine Engineering Co. Ltd.—392 Y/E
 King, J. A. & Co. Ltd.—134 F/G
 King's Langley Engineering Co. Ltd.—
 410 /GG
 Kwikform Ltd.—119, 120 F/G

L

Labour News, Public Works & Bldg.
 Weekly.—16 A/G
 Lafarge Aluminous Cement Co. Ltd.—
 78 D/G
 Langham Export Co. Ltd.—166 H/G
 Langley London Ltd.—132 F/G

Langton, H. S., Ltd.—254 L/G
 Lata Doors & Products Ltd.—654 /EG
 Latter, A., & Co. Ltd.—561 /NG
 Lawler, Ayres & Co. Ltd.—279 O/N, 430 /GG
 Lead Industries Development Council.—
 189 H/G, 196 J/G
 Leaderflush Ltd.—26, 27 B/G
 Leeds Fireclay Co. Ltd.—227, 228 K/G
 Leetex Ltd.—644 /EG
 Leng, Christopher & Sons Ltd.—53 C/G
 Levene, William Ltd.—643 /EG
 Limmer & Trinidad Lake Asphalt Co. Ltd.—
 128 F/G
 Limer Concrete Machinery Co. Ltd.—271
 N/N
 Linoleum Manufacturers Association.—640,
 641 /EG
 Lion Stamping Co. Ltd.—544 N/G
 Liotex Asbestos Flooring Co. Ltd.—424 /GG
 Lister, R. A. & Co. Ltd.—172, 173 H/G,
 212, 213 J/G
 Lloyds Bank Ltd.—140 G/G
 Loft Ladders Ltd.—495 /GG
 London Brick Co. Ltd.—97 E/G
 London & Midland Steel Scaffolding Co. Ltd.—
 159 G/G
 London Sand Blast Decorative Glass Works
 Ltd.—148 G/G
 Lyon, Arthur & Co. (Engineers) Ltd.—
 73, 74 D/G
 Lyte Ladders Ltd.—19 B/G

M

Machinery (Continental) Ltd.—256 L/G
 Mallinson, Wm. & Sons Ltd.—100 E/G
 Marks, Leslie & Co. Ltd.—473 GG
 Marley Tile Co. Ltd.—181, 182 H/G, 203,
 204 J/G
 Marshall G. E. & Co. Ltd.—555 /NG
 Masonite Ltd.—187 H/G, 198 J/G
 Maycrete Ltd.—630, 631 /EG
 Medway Buildings & Supplies Ltd.—112 E/G
 M.E. Engineering Ltd.—62 C/G
 Metal Sections Ltd.—147 G/G
 Meta Mica Ltd.—10 A/G
 Metsprays Ltd.—554 /NG
 Meyer, Montague L. Ltd.—306 Q/N
 Midland Bank Ltd.—257 M/N
 Midland Saw & Tool Co. Ltd.—376 X/E
 Millars' Machinery Co. Ltd.—258, 259 M/N
 Mills Scaffold Co. Ltd.—121, 122 F/G
 Milners Safe Co. Ltd.—331 S/N
 Ministry of Works, The.—445, 447, 449 /GG
 M.O.H.L.G.—453, 455 /GG
 Molesey Sheet Metal Works.—652 /EG
 Moulded Components (Jablo) Ltd.—522 /NG
 Mundet Cork Products Ltd.—412 /GG
 Municipal Journal Ltd., The.—419 /GG
 Munster Chemical Co.—557 /NG
 Myko Floors, Ltd.—434 /GG

N

Nairn, M. & Co. Ltd.—442, 444 /GG
 Nash, H. R. Ltd.—267 N/N
 National Coal Board.—110 E/G
 National Federation of Building Trades
 Employers.—478, 480, 482 /GG
 National Federation of Clay Industries—
 88 D/G
 National Flooring Co. Ltd.—231 K/G
 National Provincial Bank Ltd.—393 Y/E
 Natural Asphalt Mine-Owners & Manu-
 facturers Council.—39 B/G
 Neal, R. H. & Co. Ltd.—387, 388 Y/E
 Nevastane Products.—274 N/N
 New Era Publishing Co. Ltd.—20 B/G
 Newsum, H. Sons & Co. Ltd.—446 /GG
 Noelte Ltd.—188 H/G
 Nortons' Plant Hire.—64 C/G
 Nufloor Ltd.—197 J/G
 Nuralite Sales Ltd.—248, 249 L/G

O

Official Architecture & Planning.—350 T/N
 Oliver, William & Sons Ltd.—139 F/G
 Orlit Ltd.—600, 601, 602 /EG
 Osman, Wm.—469, 471 /GG

P

Packard & Ord Ltd.—457 /GG
 Palmers Travelling Cradle & Scaffold Co.
 Ltd.—174 H/G, 211 J/G
 Panel Parquetry Ltd.—655 /EG
 Panelwood Ltd.—493 /GG
 Parker, Frederick Ltd.—296, 297 P/N
 Parry & Son Tools, Ltd.—423 /GG
 Parsons, Thos. & Sons Ltd.—96 E/G
 Pearl Varnish Co. Ltd.—558 /NG
 Peerless Built-in Furniture Ltd.—41 B/G
 Peglers Ltd.—102 E/G
 Pegson Ltd.—59 C/G
 Penfold Fencing & Engineering Ltd.—44 C/G
 Pernacem Paint Co. Ltd.—565 /NG
 Pesture Ltd.—405 /GG
 Philips Electrical Ltd.—320 R/N
 Philip Flooring Co. Ltd.—470 /GG
 Philplug Products Ltd.—220 K/G
 Pickles, John & Son (Engineers) Ltd.—
 368 V/E, 369 W/E
 Pilkington Bros. Ltd.—133 F/G
 Pioneer Mixers Ltd.—345 S/N
 "Prefabrication"—626, 627 /EG
 Prestressed Concrete Development Group
 —500, 501, 502, 503, 504, 505, 506 /NG
 Price, D. W. & Sons Ltd.—351 T/N
 Pritchard, R. W. (Mfg.) Ltd.—496 /GG
 Prowse, Keith & Co. Ltd.—236 L/G
 Pyrene Co. Ltd., The.—497, 499 /GG
 Pyrock Ltd.—31 B/G

Q

Quickdraw Co. Ltd.—559 /NG

R

Radiation Group Sales Ltd.—264 M/N
 Randall, Wm. & Co. (Slinfold) Ltd.—106
 E/G
 Range Boilers Ltd.—269 N/N
 Rapid Metal Developments Ltd.—114, 115
 F/G
 Rawlings Bros. Ltd.—58 C/G
 Rawplug Co. Ltd., The.—242 L/G
 Redhill Tile Co. Ltd.—99 E/G
 Redwing Ltd.—476 /GG
 Reed, A. Elder & Co. Ltd.—157 G/G
 Remington Rand Ltd.—438 /GG
 Rentokil Ltd.—400 /GG
 Revol Ltd.—303 Q/N
 Rhodes Chains Ltd.—193 J/G
 Road Machines (Drayton) Ltd.—282 O/N,
 356 Portcullis Avenue
 Roberts, David & Co. (Engrs.) Ltd.—68 D/G
 Robinson, Thomas & Son Ltd.—367 V/E,
 370 W/E
 Ronald, S. W. & Co. (London) Ltd.—468 /GG
 Roura & Forgas Ltd.—255 L/G
 Rowe Brothers & Co. Ltd.—485, 487 /GG
 Royal Institution of Chartered Surveyors—
 518, 520 /NG
 Ruberoid Co. Ltd.—308, 309 Q/N
 Ruddick, Harold G. & Co. Ltd.—515 /NG
 Russell, Macdonald & Co. Ltd.—246 L/G
 Rye Engineering Works (High Wycombe)
 Ltd.—383 X/E

S

Sagar (Developments) Ltd.—358 U/E
 Sagar, J. & Co. Ltd.—366 V/E, 371 W/E
 Safety Tread Ltd.—606 /EG
 Sale Tilney (Agricultural & Industrial) Ltd.—
 645, 646 /EG
 Sal-Ferricite & Trading Co. Ltd.—37 B/G
 Sand Lime Brick Mfgs. Association.—57 C/G
 Sankey, Joseph & Sons Ltd.—51 C/G
 Saunders, H. A. Ltd.—116, 117 F/G
 Scaffolding (G.B.) Ltd.—126, 127 F/G, 452 /GG
 Schubert, H. Ltd.—363 V/E, 374 W/E
 Seal draught Ltd.—552 /NG
 Sealocrete Products Ltd.—191 H/G
 Secomastic Ltd.—2, 3 A/G
 Semtex Ltd.—101 E/G
 Shaftesbury Ladders Ltd.—21, 22 B/G
 Shapland & Pether Ltd., Successors to—
 333 S/N
 Sharp Bros. & Knight Ltd.—293 P/N
 Sharpe, Richard Studios, Ltd.—608 /EG

Shaw, A. & Son (Diamonds) Ltd.—459 /GG
 Shetack Tool Works Ltd.—344 S/N
 Shires & Co. (London) Ltd.—276, 277 N/N
 Sika Ltd.—221 K/G
 Silixine Paints Ltd.—43 C/G
 Simms, W. J. Sons & Cooke Ltd.—632, 633
 634, 635 /EG
 Simpson, W. B. & Sons Ltd.—458 /GG
 Skarsten Manufacturing Co. Ltd.—429 /GG
 Slingsby, H. C. Ltd.—235 K/G
 S.M.D. Engineers.—342 S/N
 Smith, D. F. & Co. Ltd.—513 /NG
 Smith, John & Co. (London) Ltd.—63 C/G
 Smith & Wellstood Ltd.—292 P/N
 Smith's Fireproof Floors Ltd.—294, 295 P/N
 Society for the Protection of Ancient
 Buildings, The.—507 /NG
 Solid Smokeless Fuels Federation.—265 N/N
 Sommerfelds Ltd.—113 E/G
 Sondheimer, M., Sondal Works Ltd.—
 411 /GG
 South Eastern Brick & Tile Federation.—92
 E/G
 Sponcel Ltd.—404 /GG
 Staines Kitchen Equipment Co. Ltd.—60
 C/G
 Standard Catalogue Co. Ltd.—224 K/G
 Stanley, W. F. & Co. Ltd.—341 S/N
 Steel Radiators Ltd.—301 P/N
 Steel Scaffolding Co. Ltd.—76, 77 D/G
 Stenners of Tiverton Ltd.—365 V/E
 Stephens & Carter Ltd.—326 R/N
 Sterling Foundry Specialties Ltd.—70 D/G
 Steventon, John & Sons Ltd.—222, 223 K/G
 Stewarts & Lloyds Ltd.—324 R/N
 Stopper Manufacturing Co. Ltd.—403 /GG
 Stothert & Pitt Ltd.—288, 289 O/N
 Stramit Boards Ltd.—237, 238 L/G
 Stroud Bros. Ltd.—609, 610 /EG
 Surflex Flooring Co. & Liquitile Supply Co.
 —556 /NG
 Sussex & Dorking United Brick Co.'s Ltd.—
 135, 136 F/G
 Sussex Cement & Concrete Products—
 511 /NG

T
 Taylor, Robert & Co. (Ironfounders Ltd.)—
 286 O/N
 Teles Smith Ltd.—514, 516 /NG
 Tella Co. Ltd.—611 /EG
 Templer, C. G. & Co. Ltd.—202 /J/G
 Thames Board Mills Ltd.—525, 527 /NG
 Thermacoust Ltd.—89 D/G
 Thermalite Ltd.—240 L/G
 Thompson, John Beacon Windows Ltd.—
 298 P/N
 Thwaites Agricultural Engineering Co. Ltd.
 —66 C/G
 Timber Development Association.—299 P/N
 Tong, M. P. & Co. Ltd.—555a /NG
 Torrance & Sons.—288, 289 O/N
 Treed Ltd.—604, 605 /EG
 Tretol Ltd.—230 K/G
 Trianco Ltd.—290, 291 O/N, 294, 295 P/N
 Triplex Foundry Ltd.—270 N/N
 True Flue Ltd.—11 A/G
 Tubela Engineering Co. Ltd.—466 /GG
 Tubewrights Ltd.—324 R/N
 Turner, Charles & Sons Ltd.—131 F/G
 Turners Asbestos Cement Co. Ltd.—
 28, 29 B/G
 Twistee Reinforcements Ltd.—80 D/G
 Tyre Products Ltd.—509 /NG
 Tyzack, S. & Son Ltd.—425, 427 /GG

U
 Union Glue & Gelatine Co. Ltd.—36 B/G
 Unique Balance Co. Ltd.—474 /GG
 United Sponge Co. Ltd.—417 /GG
 Ure, Allan Ltd.—250 L/G

V
 Venetian Vogue Ltd.—317 Q/N
 Victory Valves Ltd.—433 /GG
 Vigers, A. Sons & Co. Ltd.—183 H/G
 Vinatex Ltd.—334 S/N
 Vitreflex Ltd.—318 Q/N

Volspray Ltd.—421 /GG
 Vulcan Manufacturing Co. (Wolverhampton)
 Ltd.—439, 441 /GG

W
 Wadkin Ltd.—359 U/E
 Ward, Thos. W. Ltd.—170 H/G
 Ward's Flexible Rod Co. Ltd.—251 L/G
 Warerite Ltd.—81 D/G
 Warry Patent Building Equipment Co.
 Ltd.—67 D/G
 Warsop Power Tools Ltd.—219 K/G
 Watts (Factors) Ltd.—332 S/N
 Waverley Book Co. Ltd.—460 /GG
 Weatherill, F. E. Ltd.—162 G/G
 Westland Engineers Ltd.—472 /GG
 Westminster Abbey—431 /GG
 White, Thos. & Sons Ltd.—364 V/E, 373 W/E
 Whitehill Spindle Tools Ltd.—398 Z/E
 Whitlock Bros. Ltd.—118 F/G
 Wickham Engineering Co. Ltd.—160, 161
 G/G
 Wild, Thos. C. (Machinery) Ltd.—457 /EG
 and Outside Site
 Williams, John & Sons (Cardiff) Ltd.—226
 K/G
 Williams & Williams Ltd.—83 D/G
 Wilson Bros. (Leeds) Ltd.—375 W/E
 Witlor Ltd.—169 H/G
 Wolf Electric Tools Ltd.—489, 491 /GG
 Woodworm & Dry Rot Control, Ltd.—
 526 /NG
 Woodworking Industries Ltd.—361 U/E

Y
 Yorkshire Cooper Works Ltd.—146 G/G
 Youngman, W. C. Ltd.—176 H/G, 209 J/G,
 218 K/G

Z
 Zinc Alloy Rust Proofing Co. Ltd.—348 T/N
 Zinc Development Association.—82 D/G

CLASSIFIED LIST OF EXHIBITS

The stands are identified in the same way as in the Alphabetical List of Exhibitors.

● Aluminium Products
 Briggs, William, & Sons Ltd.—32, 33
 B/G
 Crittall Manufacturing Co. Ltd.—98 E/G
 Esavian Ltd.—40 B/G
 Expanded Metal Co. Ltd.—95 E/G
 Gardiner Sons & Co. Ltd.—89 D/G
 Hope, Henry, & Sons Ltd.—90, 91 D/G
 Imperial Chemical Industries Ltd.—
 86, 87 D/G
 Loft Ladders Ltd.—495 /DG
 London Midland Steel Scaffolding Co.
 Ltd.—159 G/G
 Lyte Ladders Ltd.—199 B/G
 S.M.D. Engineers Ltd.—342 S/N
 John Thompson Beacon Windows Ltd.
 —298 P/N

● Art Metal Works and Wrought
 Iron Products
 Forsters Machine Co. Ltd.—465, 467 /GG
 Johnson, G., Bros. Ltd.—125 F/G
 Molesey Sheet Metal Works.—452 /EG
 Scaffolding (G.B.) Ltd.—126, 127 F/G,
 452 /GG

● Asbestos Products
 Cape Asbestos Co. Ltd.—261 M/N
 Cellatite & British Uralite Ltd.—
 245 L/G
 Durasteel Ltd.—316 Q/N
 Turners Asbestos Cement Co. Ltd.—
 28, 29 B/G

● Asphalt
 Bitumen Industries Ltd.—1 A/G
 Highways Construction Ltd.—56 C/G
 Limmer & Trinidad Lake Asphalt Co.
 Ltd.—128 F/G
 National Flooring Co. Ltd.—231 K/G

● Associations and Organizations
 Association of Vermiculite Exfoliators
 545 /NG
 British Electrical Development Associa-
 tion.—103, 104 E/G
 British Iron & Steel Federation.—508
 510, 512 /NG

British Rubber Development Board.—
 34 B/G
 British Standards Institution.—475 /GG
 Building Industry Distributors.—528
 530 /NG
 Cement & Concrete Association.—
 302 P/N
 Coal Utilisation Joint Council.—
 260 M/N
 Copper Development Association.—
 307 Q/N
 English Joinery Manufacturers' Associa-
 tion (Incorporated)—142 G/G
 Federation of Clinker Block Manu-
 facturers.—409 /GG
 Federation of Master Builders.—
 432 /GG
 Fire Protection Association.—407 /
 Gas Council.—300 P/N
 Housing Centre.—539 /NG
 Institute of Quantity Surveyors.—
 440 /GG
 Institute of Registered Architects.—
 546 /NG
 Lead Industries Development Council.
 —189 H/G, 196 J/G
 Linoleum Manufacturers Association.—
 640, 641 /EG
 National Federation of Building Trades
 Employers.—478, 480, 482 /GG
 National Federation of Clay Industries.
 —88 D/G
 Natural Asphalt Mine-Owners &
 Manufacturers Council.—39 B/G
 Royal Institute of British Architects—
 510, 520 /NG
 Sand Lime Brick Manufacturers Associa-
 tion Ltd.—57 C/G
 Society of the Protection of Ancient
 Buildings.—507 /NG
 Solid Smokeless Fuels Federation.—
 265 N/N
 South Eastern Brick & Tile Federation
 —92 E/G
 Timber Development Association Ltd.
 —299 P/N

Worshipful Company of Carpenters.—
 531, 533 /NG
 Zinc Development Association.—82
 D/G

● Banks
 Lloyds Bank Ltd.—140 G/G
 Midland Bank Ltd.—257 M/N
 National Provincial Bank Ltd.—393 Y/E

● Barrows, Ladders, etc.
 Braby, Fredk., & Co. Ltd.—229 K/G
 Cayless Bros. (Battersea) Ltd.—17, 18
 B/G
 Drew, Clark & Co. Ltd.—48 C/G
 Eclipse Rail-Track Ladder Co. Ltd.—
 123 F/G
 Eustace & Partners Ltd.—61 C/G
 Langton, H. S.—254 L/G
 Loft Ladders Ltd.—495 /GG
 Lyte Ladders Ltd.—199 B/G
 M.E. Engineering Ltd.—42 C/G
 Randall, Wm., & Co. (Horsham) Ltd.—
 106 E/G
 Shaftesbury Ladders Ltd.—21, 22 B/G
 Slingsby, H. C. Ltd.—235 K/G
 Stephens & Carter, Ltd.—326 R/N
 Warry Patent Building Equipment Co.
 Ltd.—67 D/G
 Wickham Engineering Co. Ltd.—160,
 161 G/G
 Youngman, W. C., Ltd.—176 H/G,
 209 J/G, 210 K/G

● Bathroom Fittings
 Adamsez Ltd.—180 H/G, 205 J/G
 Allied Ironfounders Ltd.—636, 637 /EG
 Binns, A. J., Ltd.—262, 263 M/N
 Bourner, S. H., & Co. (Engineers) Ltd.—
 567 /NG
 Dimplex Ltd.—481 /GG
 Esiclene Porcelain-Enamel (1938) Ltd.
 —177 H/G, 208 J/G
 Finch, B., & Co. Ltd.—12, 13, 14 A/G
 Froy, W. N., & Sons Ltd.—304, 305 Q/N
 Gulf Radiators Ltd.—244 L/G
 Ideal Boilers & Radiators Ltd.—310 Q/N

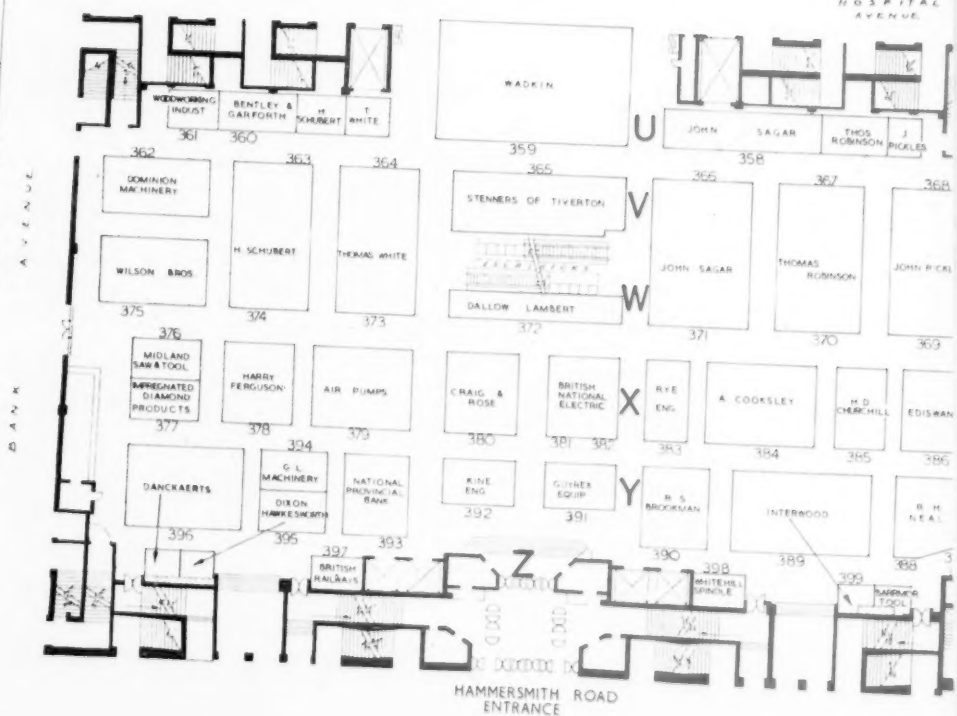
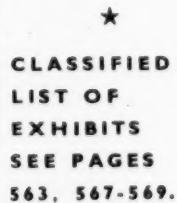
Paglers Ltd.—102 E/G
 Pilkington Bros. Ltd.—133 F/G
 Price, D. W., & Sons Ltd.—351 T/N
 Steventon, John, & Sons Ltd.—222,
 223 K/G, 422 /GG

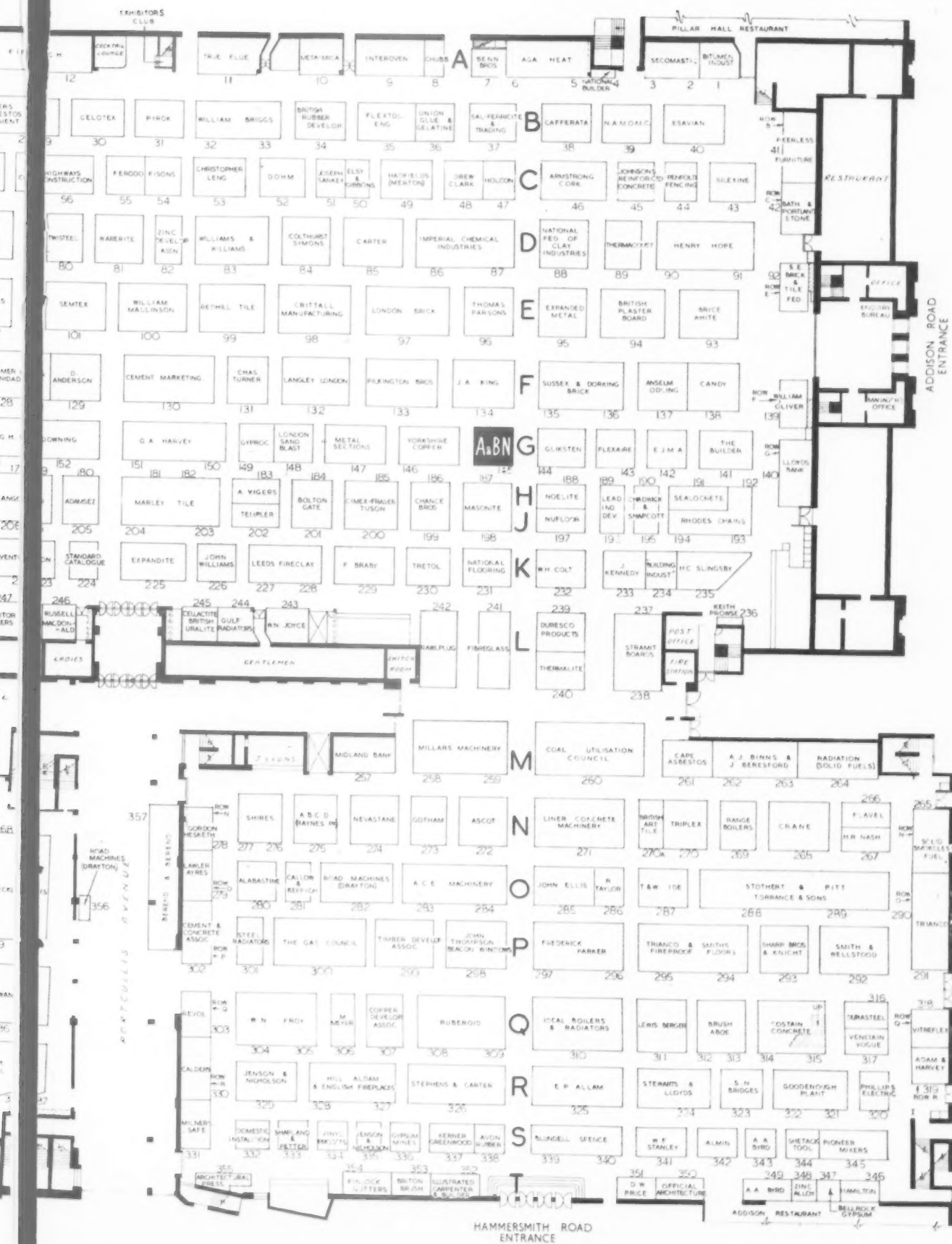
● Bending Machinery
 Acrow (Engineers) Ltd.—107, 108,
 109 E/G, 426 /GG
 Hilmer Ltd.—23 B/G
 Kennedy, W. Ltd.—233 K/G
 Lawler, Ayres & Co. Ltd.—279 O/N,
 430 /GG
 Tubela Engineering Co. Ltd.—466 /GG

● Boilers, Ranges, Stoves, Grates,
 Radiators and Accessories
 Aga Heat Ltd.—5, 6 A/G
 Aidan Electric Ltd.—79 D/G
 Allied Ironfounders Ltd.—436, 637 /EG
 Crane Ltd.—260 N/N
 Dimplex Ltd.—481 /GG
 Elsy & Gibbons Ltd.—50 C/G
 Flavel, Sidney & Co., Ltd.—266 N/N
 Flexaire, Ltd.—143 G/G
 Froy, W. N., & Sons Ltd.—304, 305 Q/N
 Gulf Radiators, Ltd.—244 L/G
 Hemel Hempstead Engineering Co.
 Ltd.—253 L/G
 Ideal Boilers & Radiators Ltd.—310 Q/N
 Intervon Stove Co., Ltd.—9 A/G
 Janitor Boilers, Ltd.—247 L/G
 Lion Stamping Co. Ltd.—544 /NG
 Radiation Group Sales Ltd.—264 M/N
 Range Boilers, Ltd.—269 N/N
 Shires & Co. (London) Ltd.—276, 277
 N/N
 Smith & Wellstood, Ltd.—292 P/N
 Steel Radiators, Ltd.—301 P/N
 Taylor, Robert & Co. (Ironfounders)
 Ltd.—288 O/N
 Torrance & Sons, Ltd.—288, 289 O/N
 Trianco, Ltd.—290, 291 O/N, 294, 295
 P/N
 Triplex Foundry, Ltd.—270 N/N
 True Flue, Ltd.—11 A/G
 Ure, Allan, Ltd.—250 L/G
 Watts (Factors) Ltd.—332 S/N

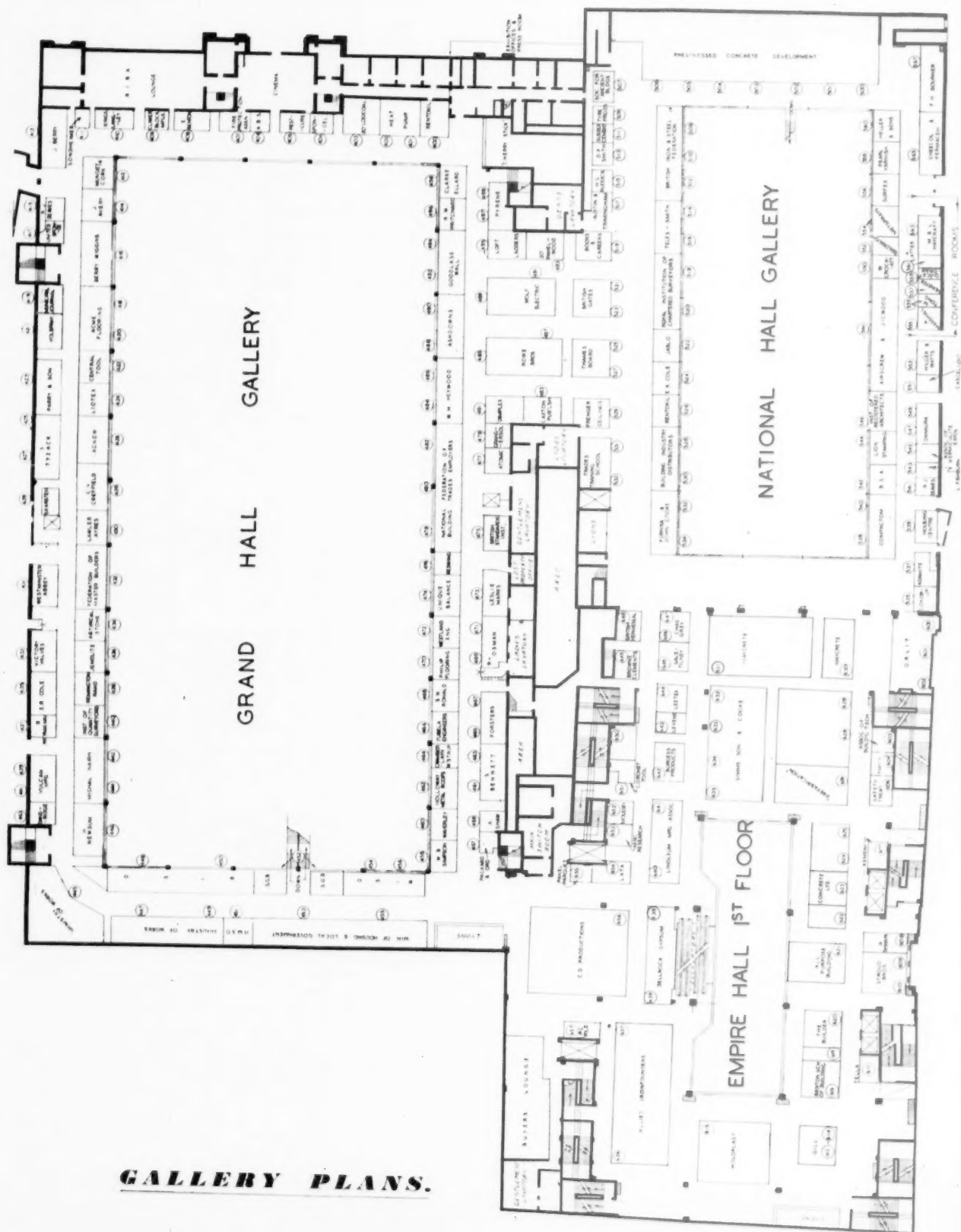
[Continued on page 567]

BELOW LEFT : EMPIRE HALL.





GALLERY PLANS.



Continued from page 563

● Brick & Block Making Machinery

Bentley & Garforth.—360 U/E
 Berend & Berend, Ltd.—45 C/G,
 357 Portcullis Ave.
 271 N/N
 Millars' Machinery Co., Ltd.—250
 259 M/N
 Pioneer Mixers, Ltd.—345 S/N
 Trianco, Ltd.—290, 291 O/N, 294, 295
 P/N
 Wickham Engineering Co., Ltd.—
 160, 161 G/G

● Canteen and Kitchen Equipment

Allied Ironfounders Ltd.—636, 637 /EG
 British National Electric Ltd.—381,
 382 X/E
 Esiclene Porcelain-Enamel (1938) Ltd.—
 177 H/G, 200 J/G
 Ely & Gibbons, Ltd.—50 C/G
 English Joinery Manufacturers Association
 (Incorporated)—142 G/G
 Eustace & Partners Ltd.—41 C/G
 Froy, W. N., & Sons, Ltd.—304, 305
 Q/N
 Ideal Boilers & Radiators Ltd.—310 Q/N
 Nevastone Products—274 N/N
 Peerless Built-in Furniture Ltd.—41 B/G
 Peglers, Ltd.—102, E/G
 Radiation Group Sales Ltd.—264 M/N
 Redwing, Ltd.—74 /GG
 Rowe, Bros., & Co., Ltd.—405, 407 /GG
 Sharp Bros. & Knight, Ltd.—293 P/N
 Smith & Westwood, Ltd.—292 P/N
 Staines' Kitchen Equipment Co., Ltd.—
 60 C/G
 Triplex Foundry Ltd.—270 N/N
 Warerite, Ltd.—81 D/G

● Ceilings

British Plaster Board, Ltd.—94 E/G
 Burgess Products Co., Ltd.—442 /EG
 Cape Asbestos Co., Ltd.—261 M/N
 Expanded Metal Co., Ltd.—95 E/G
 Frenger Ceilings, Ltd.—529 /NG
 Metal Sections, Ltd.—147 G/G
 Meta Mica, Ltd.—10 A/G

● Cement and Concrete Paints

Cement Marketing Co., Ltd.—130 F/G
 Checol Processes, Ltd.—565 /NG
 Ellis, John & Sons, Ltd.—285 O/N
 Sal-Ferricite & Trading Co., Ltd.—
 37 B/G
 Sika, Ltd.—221 K/G

● Cement and Concrete Products
(including Bricks and Tiles)

A.B.C.D. (Raynes Park) Ltd.—275 N/N
 Cement Marketing Co., Ltd.—130 F/G
 Checol Processes Ltd.—565 /NG
 Costain Concrete Co., Ltd.—314, 315
 Q/N
 Eastwoods Ltd.—154 G/G
 Ellis, John & Sons, Ltd.—285 O/N
 Johnson's Reinforced Concrete
 Engineering Co., Ltd.—45 C/G
 Lafarge Aluminous Cement Co., Ltd.—
 78 D/G
 Leighton Buzzard Tiles, Ltd.—154 G/G
 Limmer & Trinidad Lake Asphalt Co.,
 Ltd.—128 F/G
 Marley Tile Co., Ltd.—181, 182 H/G,
 203, 204 J/G
 Pyrene Co., Ltd.—497, 499 /GG
 Smith's Fireproof Floors, Ltd.—294,
 295 P/N
 Sussex Cement & Concrete Products.—
 511 /NG
 Trianco, Ltd.—290, 291 O/N, 294
 295 P/N
 True-Crete, Ltd.—11 A/G

● Cements

Cement Marketing Co., Ltd.—130 F/G
 Eastwoods Ltd.—154 G/G
 Gotham Co., Ltd.—273 N/N
 Holcon, Ltd.—47 C/G
 Kerner-Greenwood & Co., Ltd.—337 S/N
 Lafarge Aluminous Cement Co., Ltd.—
 78 D/G
 Leeds Fireclay Co., Ltd.—227, 228 K/G
 Pyrene Co., Ltd.—497, 499 /GG
 Templer, C. G. & Co., Ltd.—207 J/G

● Cement Treatments

Byrd, A. A., & Co., Ltd.—343 S/N, 349
 T/N
 Cement Marketing Co.—130 F/G
 Pyrok Ltd.—31 G/G
 Sal-Ferricite & Trading Co., Ltd.—
 37 B/G
 Tretol Ltd.—230 K/G

● Chains, Belts

Berry Wiggins & Co., Ltd.—416 /GG

Revol, Ltd.—303 Q/N
 Rhodes Chains, Ltd.—193 J/G

● Cisterns

Braby, Fredk. & Co., Ltd.—229 K/G
 Esiclene Porcelain-Enamel (1938) Ltd.—
 177 H/G, 200 J/G
 Ely & Gibbons, Ltd.—50 C/G
 Harvey G. A. & Co. (London) Ltd.—
 150, 151 G/G
 Shires & Co. (London) Ltd.—276,
 277 N/N

● Clay Products (inc. Bricks and Tiles)

Accrington Brick & Tile Co., Ltd.—
 158 G/G
 Berkhamsted Brick Co., Ltd.—50 C/G
 Carter Group of Companies—85 D/G
 Cement Marketing Co., Ltd.—130 F/G
 Colthurst, Symons & Co., Ltd.—84 D/G
 Downing, G. H. & Co., Ltd.—152,
 153 G/G
 Eastwoods Ltd.—154 G/G
 Fisons Ltd.—54 C/G
 Holcon, Ltd.—47 C/G
 Langley London Ltd.—132 F/G
 Leeds Fireclay Co., Ltd.—227, 228 K/G
 London Brick Co., Ltd.—97 E/G
 National Coal Board.—110 E/G
 Packard & Ord Ltd.—457 /GG
 Redhill Tile Co., Ltd.—99 E/G
 South-Eastern Brick & Tile Federation.—
 92 E/G
 Sussex & Dorking United Brick Com-
 panies Ltd.—135, 136 F/G

● Clocks

English Clock Systems, Ltd.—155 G/G

● Colour and Pigments

Reed, A., Elder & Co., Ltd.—157 G/G
 Sal-Ferricite & Trading Co., Ltd.—
 37 B/G
 Sealocrete Products Ltd.—191 H/G

● Compressors, Engines, Generators

Air Pumps Ltd.—379 X/E
 British Equipment Co., Ltd.—210 J/G,
 175 H/G
 Brush Aboe Group Services Ltd.—
 312, 313 Q/N
 B.S.A. Cycles Ltd.—542 /NG
 Consolidated Pneumatic Tool Co., Ltd.—
 215, 216 K/G
 Lawler, Ayres & Co., Ltd.—279 O/N,
 430 /GG
 Lister, R. A. & Co., Ltd.—172, 173 H/G,
 212, 213 J/G
 Lyon, Arthur & Co. (Engineers) Ltd.—
 73, 74 D/G

● Concrete Machinery, Plant,
Shuttering Formwork and Equipment

A. B. Mould & Construction Co., Ltd.—
 163 G/G
 A.C.E. Machinery Ltd.—283, 284 O/N
 Acrow (Engineers), Ltd.—107, 108, 109
 E/G, 426 /GG
 Allam, E. P. & Co., Ltd.—325 R/N
 Benford Ltd.—71, 72 D/G
 Benton, Edward & Co., Ltd.—408 /GG
 Byrd, A. A. & Co., Ltd.—343 S/N,
 349 T/N
 Consolidated Pneumatic Tool Co., Ltd.—
 215, 216 K/G
 Dixon Hawkesworth Ltd.—395 Y/E
 Flexible Drive & Tool Co., Ltd.—214 K/G
 Goodenough Contractors' Machinery
 Ltd.—321, 322 R/N
 Guyrex Equipment Ltd.—391 Y/E
 Kwikform Ltd.—119, 120 F/G
 Liner Concrete Machinery Co., Ltd.—
 271 N/N
 M. E. Engineering Ltd.—62 C/G
 Millars' Machinery Co., Ltd.—250, 259
 M/N
 Mills Scaffold Co., Ltd.—121, 122 F/G
 Parker, Frederick, Ltd.—296, 297 P/N
 Pioneer Mixers Ltd.—345 S/N
 Rapid Metal Developments Ltd.—
 114, 115 F/G
 Road Machines (Drayton) Ltd.—282
 O/N, 356 Portcullis Avenue
 Roberts, David & Co. (Engineers)
 Ltd.—68 D/G
 Scaffolding (Great Britain) Ltd.—
 126, 127 F/G, 452 /GG
 Stephens & Carter Ltd.—326 R/N
 Stothert & Pitt Ltd.—288, 289 O/N
 Trianco Ltd.—290, 291 O/N, 294, 295
 P/N
 Warsop Power Tools Ltd.—219 K/G

● Contractors' Plant and Machinery

Allam Road Plant Ltd.—325 R/N
 Aveling-Barford Ltd.—217 K/G
 Berend & Berend Ltd.—165 C/G
 357 Portcullis Avenue

Chasside Engineering Co., Ltd.—
 171 H/G

Cole, E. R., Ltd.—435 /GG
 Consolidated Pneumatic Tool Co., Ltd.—
 215, 216 K/G
 Dixon Hawkesworth Ltd.—395 Y/E
 Ferguson Edwards Ltd.—378 X/E
 Kango Electric Hammers Ltd.—179 H/G

106 J/G

Liner Concrete Machinery Co., Ltd.—
 271 N/N
 Lister, R. A. & Co., Ltd.—172, 173 H/G,
 212, 213 J/G

M. E. Engineering, Ltd.—62 C/G
 Millars' Machinery Co., Ltd.—250,
 259 M/N

Nash, H. R., Ltd.—267 N/N
 Norton's Plant Hire—64 C/G

Parker, Frederick Ltd.—296, 297 P/N

Pegson Ltd.—59 C/G

Road Machines (Drayton) Ltd.—282
 O/N, 357 Portcullis Avenue

Sale Tiney (Agricultural & Industrial)
 Ltd.—445, 446 /EG

Saunders, H. A., Ltd.—116, 117 F/G

Scaffolding (Great Britain) Ltd.—126,
 127 F/G, 452 /GG

Stothert & Pitt Ltd.—288, 289 O/N

Thwaites Agricultural Engineering Co.
 Ltd.—66 C/G

Warr, Thos. W., Ltd.—170 H/G

Warry Patent Building Equipment
 Co., Ltd.—67 D/G

Warsop Power Tools Ltd.—219 K/G

Weatherill, F. E., Ltd.—162 G/G

Whitlock Bros. Ltd.—118 F/G

Wickham Engineering Co., Ltd.—160,
 161 G/G

Witlor Ltd.—169 H/G

● Copper Products

Braby, Fredk. & Co., Ltd.—229 K/G
 Conex-Terna Ltd.—75 D/G
 Econa Modern Products Ltd.—25 B/G
 Ely & Gibbons Ltd.—50 C/G
 Harvey, G. A. & Co. (London) Ltd.—
 150, 151 G/G
 Holloway Metal Roofs, Ltd.—462 /GG
 Ideal Boilers & Radiators Ltd.—
 310 Q/N
 Imperial Chemical Industries Ltd.—
 86, 87 D/G
 Kennedy, W., Ltd.—233 K/G
 Kings Langley Engineering Co., Ltd.—
 410 G/G
 Poglers Ltd.—102 E/G
 Range Boilers Ltd.—269 N/N
 Yorkshire Copper Works Ltd.—146 G/G

● Cranes, Hoists, Conveyors and
Fittings

A.C.E. Machinery Ltd.—283, 284 O/N
 Acrow (Engineers) Ltd.—107, 108, 109
 E/G, 426 /GG
 Berend & Berend Ltd.—65 C/G—357
 Portcullis Avenue
 Britton Hoist & Crane Co., Ltd.—111
 E/G
 Dandridge, Arthur F., Ltd.—443 /GG
 Hemel Hempstead Engineering Co.
 Ltd.—253 L/G
 Lawler, Ayres & Co., Ltd.—279 O/N
 Lorry Loaders Ltd.—
 430 /GG
 Millars' Machinery Co., Ltd.—250, 259
 M/N
 Neal, R. H., & Co., Ltd.—387, 388 Y/E
 Parker, Frederick, Ltd.—296, 297 P/N
 Roberts, David & Co. (Engineers) Ltd.—
 68 D/G
 Scaffolding (Great Britain) Ltd.—126,
 127 F/G, 452 /GG
 Thwaites Agricultural Engineering Co.
 Ltd.—66 C/G
 Warry Patent Building Equipment Co.
 Ltd.—67 D/G
 Wickham Engineering Co., Ltd.—160,
 161 G/G
 Wild, Thos. C. (Machinery) Ltd.—
 657 /EG and outside site.

● Dampcourses, Roofing Felts,
Waterproofing Materials, etc.

Alabastine Co. (British) Ltd.—280 O/N
 Anderson, D., & Son Ltd.—129 F/G
 Berry Wiggins & Co., Ltd.—416 /GG
 Bitumen Industries Ltd.—1 A/G
 Briggs, William, & Sons Ltd.—32, 33
 B/G
 Byrd, A. A., & Co., Ltd.—343 S/N,
 349 T/N
 Cement Marketing Co., Ltd.—130 F/G
 Expandite Ltd.—225 K/G
 Grangersol Ltd.—479 /GG
 Highways Construction Ltd.—56 C/G
 Imperial Chemical Industries Ltd.—
 86, 87 D/G
 Kerner-Greenwood & Co., Ltd.—337
 S/N
 Limmer & Trinidad Lake Asphalt Co.
 Ltd.—128 F/G
 National Coal Board.—110 E/G
 Ruberoid Co., Ltd.—308, 309 Q/N

Sal-Ferricite & Trading Co., Ltd.—
 37 B/G

Sealocrete Products Ltd.—191 H/G

Secomastic Ltd.—2, 3 A/G

Sika Ltd.—221 K/G

Tretol Ltd.—230 K/G

● Door and Gate Fittings and Gear

Acrow (Engineers) Ltd.—107, 108,
 109 E/G, 426 /GG
 Avery, J., & Co. (Est. 1834) Ltd.—
 414 /GG
 Binns, A. J., Ltd.—262, 263 M/N
 Clarke Ellard Engineering Co., Ltd.—
 498 /GG
 Forsters Machine Co., Ltd.—465, 467 /GG
 Froy, W. N., & Sons Ltd.—304, 305 Q/N
 Hill, Aldam, E., & Co., Ltd.—327, 328
 R/N
 Johnson, G. Bros. Ltd.—125 F/G
 Vulcan Manufacturing (Wolverham-
 pton) Ltd.—439, 441 /GG

● Doors (Metal Doors, etc.)

British Gates, 521, 523 /NG
 British Plumber Ltd.—178 H/G, 207 J/G
 Bryce White & Co., Ltd.—93 E/G
 Burgess Products Co., Ltd.—442 /EG
 English Joinery Manufacturers' Association
 (Incorporated)—142 G/G
 Glinksten Doors Ltd.—144 G/G
 Leaderflush Ltd.—26, 27 B/G
 Moulded Components (Jablo) Ltd.—
 522 NG
 Shapland & Pether Ltd., Successors to—
 333 S/N
 Sharp Bros., & Knight Ltd.—293 P/N
 Stramit Boards Ltd.—237, 238 L/G
 Westland Engineers Ltd.—472 /GG

● Drain Cleaning and Testing
Equipment

Cayless Bros. (Battersea) Ltd.—17, 18
 B/G
 Shetack Tool Works Ltd.—344 S/N
 Ward's Flexible Rod Co., Ltd.—251 L/G

● Draught Excluders

Atomic Draught-Sealing Co.—477 /GG
 British Hermeseal Ltd.—648 /EG
 Chamberlain Weatherstrips Ltd.—
 464 /GG

● Drawing Office and Surveying
Equipment

Austin & Trimmingham.—517 /NG
 Hilger & Watts Ltd.—553 /NG
 Metsprays Ltd.—554 /NG
 Stanley, W. F., & Co., Ltd.—341 S/N

● Ducting

Braby, Fredk., & Co., Ltd.—229 K/G
 Cellactite & British Uralite Ltd.—
 245 L/G
 Greenwood's & Airvac Ventilating Co.,
 Ltd.—192 H/G
 Key Engineering Ltd.—69 D/G

● Dust Control Equipment

Cole, E. R., Ltd.—435 /GG
 Dallow, Lambert & Co., Ltd.—372 W/E

● Electrical Apparatus, Heaters,
Fittings and Installations

Aidas Electric Ltd.—79 D/G
 British National Electric Ltd.—381,
 382 X/E
 Cole, E. R., Ltd.—524 /NG
 Copperpad Ltd.—124 F/G
 Dimplex Ltd.—481 /GG
 Edison Swan Electric Co., Ltd.—386 X/E
 Ely & Gibbons Ltd.—50 C/G
 Flexaire Ltd.—143 G/G
 Frenger Ceilings Ltd.—529 /NG
 Metal Sections Ltd.—147 G/G
 Philips Electrical Ltd.—328 R/N
 Steel Radiators Ltd.—301 P/N

● Fencing and Gates

Binns, A. J., Ltd.—262, 263 M/N
 Bolton Gate Co., Ltd.—182 H/G, 201 J/G
 British Gates.—521, 523 /NG
 Bryce White & Co., Ltd.—93 E/G
 Forsters Machine Co., Ltd.—465, 467 /GG
 Penfold Fencing & Engineering Ltd.—
 44 C/G
 Scaffolding (Great Britain) Ltd.—126,
 127 F/G, 452 /GG

● Fireplaces

Candy & Co., Ltd.—138 F/G
 Froy, W. N., & Sons Ltd.—304, 305 Q/N
 Stevenson, John & Sons Ltd.—222,
 223 K/G
 Ure, Allan, Ltd.—250 L/G

• Fire-Resisting Materials and Treatment

Berry, J., & Sons Ltd.—413 /GG
Bolton Gate Co. Ltd.—184 H/G, 201 J/G
British Plaster Board Ltd.—94 E/G
Cafferata & Co. Ltd.—38 B/G
Cape Asbestos Co. Ltd.—261 M/N
Cellacite & British Uralite Ltd.—245 L/G
Durasteel Ltd.—316 Q/N
Fibreglass Ltd.—241 L/G
Gyproc Products Ltd.—149 G/G
Holcon Ltd.—47 C/G
Meta Mica Ltd.—10 A/G
Pyrok Ltd.—31 B/G
Shapland & Pether Ltd., Successors to.—333 S/N
Smith's Fireproof Floors Ltd.—294, 295 P/N
Stramit Boards Ltd.—237, 238 L/G

• Floor Polishing and Cleaning Machines—including Polishers

Cimex-Fraser Tuson Ltd.—185 H/G, 200 J/G
Columbus-Dixon Organisation—105 E/G
Flexitol Engineering Co. Ltd.—35 B/G
Liutex Asbestos Flooring Co. Ltd.—424 /GG
Nufford Ltd.—197 J/G
Reed, A., Elder & Co. Ltd.—157 G/G
Sal-Ferricite & Trading Co. Ltd.—37 B/G

• Floors and Flooring

Adamite Co. Ltd.—537 /NG
Aero Research—453 /EG
Armstrong Cork Co. Ltd.—46 C/G
Artificial Stone & Concrete Co. Ltd.—434 /GG
Avon India Rubber Co. Ltd.—320 S/N
Bennett, S. & Son (Wood Flooring) Ltd.—461, 463 /GG
Bitumen Industries Ltd.—I A/G
Bourn Ltd.—15 A/G
Calders Ltd.—330 R/N
Columbus-Dixon Organisation—105 E/G
Cooke, John & Sons (Huddersfield) Ltd.—532 /NG
Costain Concrete Co. Ltd.—314, 315 Q/N
Ferodo Ltd.—53 C/G
Fishburn, L.—543 /NG
Highways Construction Ltd.—56 C/G
Holcon Ltd.—47 C/G
Holoplast Ltd.—615 /EG
Imperial Chemical Industries Ltd.—86, 87 D/G
Leaderflush Ltd.—26, 27 D/G
Limmer & Trinidad Lake Asphalt Co. Ltd.—128 F/G
Liutex Asbestos Flooring Co. Ltd.—424 /GG
Marley Tile Co. Ltd.—181, 182 H/G, 203, 204 J/G
Masoneite Ltd.—187 H/G, 198 J/G
Meta Mica Ltd.—10 A/G
Mundet Cork Products Ltd.—412 /GG
Nairn, Michael & Co. Ltd.—442, 444 /GG
National Flooring Co. Ltd.—231 K/G
Panel Parquetry Ltd.—655 /EG
Peerless Built-in Furniture Ltd.—41 B/G
Philip Flooring Co. Ltd.—470 /GG
Reed, A., Elder & Co. Ltd.—157 G/G
Sal-Ferricite & Trading Co. Ltd.—37 B/G
Semtex Ltd.—101 E/G
Simpson, W. B. & Sons Ltd.—458 /GG
Smith's Fireproof Floors Ltd.—294, 295 P/N
Stevenson, John & Sons Ltd.—223, 223 K/G
Surflex Flooring Co. & Liquefite Supply Co.—556 /NG
Vigers, A., Sons & Co. Ltd.—183 H/G

• Flues

Finch, B. & Co. Ltd.—12, 13, 14 A/G
True Flue Ltd.—11 A/G

• Galvanised Products and Processes

Braby, Fredk., & Co. Ltd.—229 K/G
Crittall Manufacturing Co. Ltd.—150, 151 G/G
Harvey, G. A. & Co. (London) Ltd.—150, 151 G/G
Secomastic Ltd.—2, 3 A/G
Smith, D. F. & Co. Ltd.—513 /NG
Williams, John & Sons (Cardiff) Ltd.—226 K/G

• Gas Apparatus, Heaters, Fitting and Installations

Ascot Gas Water Heaters Ltd.—272 N/N
Flavel, Sidney & Co. Ltd.—266 N/N
Ideal Boilers & Radiators Ltd.—310 Q/N
Yorkshire Copper Works Ltd.—146 G/G

• General Builders Merchants

Eastwoods Ltd.—154 G/G
Finch, B. & Co. Ltd.—12, 13, 14 A/G
Froy, W. N., & Sons, Ltd.—304, 305 Q/N

• Glass (including Glass Bricks, Blocks, Tiles, etc.)

Chance Bros. Ltd.—186 H/G, 199 J/G
Eustace & Partners Ltd.—61 C/G
Ide, T. & W. Ltd.—287 O/N
King, J. A. & Co. Ltd.—134 F/G
London Sand Blast Decorative Glass Works Ltd.—148 G/G
Pilkington Bros. Ltd.—133 F/G
Price, D. W. & Sons Ltd.—351 T/N
Williams & Williams Ltd.—83 D/G

• Glues and Adhesives

Aero Research—453 /EG
Berry Wiggins & Co. Ltd.—416 /GG
Bitumen Industries Ltd.—I A/G
Union Glue & Gelatine Co. Ltd.—36 B/G

• Government, Council and Educational Exhibits

British Railways—397 Z/E
Building Crafts Training School—531, 533 /NG
Department of Scientific & Industrial Research—448, 450, 454, 456 /GG
Her Majesty's Stationery Office—451 /GG
Ministry of Housing & Local Government—453, 455 /GG
Ministry of Works—445, 447, 449 /GG

• Hammers (Bolt and Wing, Automatic)

Adam & Harvey Ltd.—319 R/N
Bourner, S. H. & Co. (Engineers) Ltd.—567 /NG
Condrup Ltd.—535 /NG
Kwikform Ltd.—119, 120 F/G
Langham Export Co. Ltd.—166 H/G
Roberts, David & Co. (Engineers) Ltd.—48 D/G
Roura & Forgas Ltd.—255 L/G

• Hardwoods, Softwoods, Carving Joinery and Mouldings, Plywoods

Bryce White & Co. Ltd.—93 E/G
Calders Ltd.—330 R/N
English Joinery Manufacturers' Association (Incorporated)—142 G/G
Eustace & Partners Ltd.—61 C/G
Gliksten, J. & Co. Ltd.—144 G/G
Mallinson, Wm. & Sons Ltd.—108 E/G
Meredithe Ltd.—144 G/G
Meyer, Montague L. Ltd.—306 Q/N
Oliver, Wm. & Sons Ltd.—139 F/G
Shapland & Pether Ltd., Successors to.—333 S/N
Sharp Bros. & Knight Ltd.—293 P/N

• Insecticides, Fumigators and Wood Preservatives

Calders Ltd.—330 R/N
Cuprinol Ltd.—325 S/N
Grangersol Ltd.—479 /GG
Hickson's Timber Impregnation Co. (G.B.) Ltd.—156 G/G
Jenson & Nicholson Ltd.—329 R/N
National Coal Board—110 E/G
Pestcure Ltd.—405 /GG
Rentokil Ltd.—400 /GG
Woodworm & Dry Rot Control Ltd.—526 /NG

• Insulation and Materials

Anderson, D., & Son Ltd.—129 F/G
Briggs, William, & Sons Ltd.—32, 33 B/G
British Hermasol Ltd.—448 /EG
British Plaster Board Ltd.—94 E/G
Bryce White & Co. Ltd.—93 E/G
Burgess Products Co. Ltd.—642 /EG
Cafferata & Co. Ltd.—38 B/G
Cape Asbestos Co. Ltd.—261 M/N
Cellacite & British Uralite Ltd.—245 L/G
Celotex Ltd.—30 B/G
Checol Processes Ltd.—545 /NG
Colt, W. H. (London) Ltd.—232 K/G
Compactom Ltd.—538, 540 /NG
Dohm, Ltd.—52 C/G
Eastwoods Specialists Ltd.—154 G/G
Ellis, John, & Sons Ltd.—285 O/N
Fibreglass Ltd.—241 L/G
Gliksten, J., & Son Ltd.—144 G/G
Gyproc Products Ltd.—149 G/G
Heywood, W. H., & Co. Ltd.—484, 486 /GG
Holcon Ltd.—47 C/G
King, J. A., & Co. Ltd.—134 F/G
Masoneite Ltd.—187 H/G, 198 J/G
Meta Mica Ltd.—10 A/G
Mundet Cork Products Ltd.—412 /GG

Pilkington Bros. Ltd.—133 F/G
Pyrene Co. Ltd.—497, 499 /GG
Pyrok Ltd.—31 B/G
Stramit Boards Ltd.—237, 238 L/G
Thermacoust Ltd.—89 D/G
Thermalite Ltd.—240 L/G

• Joint Sealing Compounds and Expansion Jointing

Celotex Ltd.—30 B/G
Expandite Ltd.—225 K/G
Philplug Products Ltd.—220 K/G
Ruberoid Co. Ltd.—308, 309 Q/N
Secomastic Ltd.—2, 3 A/G
Templer, C. G., & Co. Ltd.—202 J/G
Tretol Ltd.—230 K/G

• Journals and Publications

Architect & Building News, 145 G/G
Architectural Press Ltd.—355 T/N
Benn Brothers Ltd.—7 A/G
"Books & Careers"—519 /NG
Builder Ltd.—141 G/G, 620 /EG
Building Industries & Scottish Architect—235 K/G
Caxton Publishing Co. Ltd.—483 /GG
Federated Employers' Press Ltd.—4 A/G
Illustrated Carpenter & Builder—352 T/N
Labour News, Public Works & Building Weekly—16 A/G
Municipal Engineering—419 /GG
Municipal Journal—419 /GG
New Era Publishing Co. Ltd.—29 B/G
Official Architecture & Planning—350 T/N
Standard Catalogue Co. Ltd.—224 K/G
Waverley Book Co. Ltd.—460 /GG
Woodworking Industry—361 U/E

• Lighting—Flood

Lyon, Arthur, & Co. (Engineers) Ltd.—73, 74 D/G
Philips Electrical Ltd.—320 R/N

• Linoleum

Adamite Co. Ltd.—537 /NG
Bourn Ltd.—15 A/G
Highways Construction Ltd.—56 C/G
Limmer & Trinidad Lake Asphalt Co. Ltd.—128 F/G
Linoleum Manufacturers Association—640, 641 /EG
Philp Flooring Co. Ltd.—470 /GG
Safety Tread Ltd.—606 /EG

• Locks and Safes

Chubb & Son's Lock & Safe Co. Ltd.—8 A/G
Milners Safe Co. Ltd.—331 S/N
Vulcan Manufacturing (Wolverhampton) Ltd.—439, 441 /GG

• Marbles, Mosaics and Murals

Anselm Odling & Sons Ltd.—137 F/G
Carter Group of Companies—85 D/G
Kemery—407 /EG
Philp Flooring Co. Ltd.—470 /GG
Reed, A., Elder & Co. Ltd.—157 G/G
Simpson, W. B., & Sons Ltd.—458 /GG

• Metal Staircases

Braby, Fredk., & Co. Ltd.—229 K/G
Loft Ladders Ltd.—495 /GG
Safety Tread Ltd.—606 /EG

• Metal Structures, Partitions, Doors and Steel Equipment

Ashdowns Ltd.—488, 490 /GG
Braby, Fredk., & Co. Ltd.—229 K/G
Crittall Manufacturing Co. Ltd.—98 E/G
Durasteel Ltd.—316 Q/N
Esavian Ltd.—40 B/G
Harvey, G. A. & Co. (London) Ltd.—150, 151 G/G
Hope, Henry, & Sons Ltd.—90, 91 D/G
Imperial Chemical Industries Ltd.—86, 87 D/G
Johnson, G. Bros. Ltd.—125 F/G
Milners Safe Co. Ltd.—331 S/N
Rowe, Joseph, & Co. Ltd.—485, 487 /GG
Sankey, Joseph, & Sons Ltd.—51 C/G
Sommerfelds Ltd.—113 E/G
Williams, John, & Sons (Cardiff) Ltd.—226 K/G
Williams & Williams Ltd.—83 D/G

• Moulding Compounds

Gotham Co. Ltd.—273 N/N
Vinatex Ltd.—334 S/N

• Office Equipment and Services

Architects Classfile Ltd.—252 L/G
Avery, J., & Col (Est. 1834) Ltd.—414 /GG
Harvey, G. A., & Co. (London) Ltd.—150, 151 G/G
Remington Rand Ltd.—438 /GG
Shapland & Pether Ltd., Successors to.—333 S/N

• Paint & Rust Removers

Jenolite Ltd.—436 /GG
Revul Ltd.—303 Q/N
Skarsten Manufacturing Co. Ltd.—429 /GG

• Paint Brushes, Decorators' Tools and Equipment

Briton Brush Co. Ltd.—353 T/N
Chadwick & Shapcott Ltd.—190 H/G, 195 /G
Eclipse Rail-Track Ladder Co. Ltd.—123 F/G
Hamilton & Co. (London) Ltd.—346 T/N
Heller & Sons (Engineers) Ltd.—560 /NG
Hesketh, Gordon Ltd.—278 N/N
Heyman, B.—437 /GG
Langton, H. S.—254 L/G
Leng, Christopher & Sons Ltd.—53 C/G
Marks, Leslie & Co. Ltd.—473 /GG
Russell, Macdonald & Co. Ltd.—246 L/G
Skarsten Manufacturing Co. Ltd.—429 /GG
Sponcel Ltd.—404 /GG
United Sponge Co. Ltd.—417 /GG
Youngman, W. C. Ltd.—176 H/G, 209 J/G, 218 K/G

• Paint Machinery

Torrance & Sons Ltd.—288, 289 O/N

• Paints, Varnishes, Enamels, Dis-tempers, Stains, etc.

Berger, Lewis (Great Britain) Ltd.—311 Q/N
Blundell, Spence & Co. Ltd.—339, 340 S/N
Craig & Rose Ltd.—380 X/E
Duresco Products Ltd.—239 L/G
Goodlass, Wall & Co. Ltd.—492, 494 /GG
Hadfields (Merton) Ltd.—49 C/G
Jenson & Nicholson Ltd.—329 R/N
Liquitile Supply Co. Ltd.—556 /NG
Parsons, Thos. & Sons Ltd.—86 E/G
Pearl Varnish Co. Ltd.—558 /NG
Sal-Ferricite & Trading Co. Ltd.—37 B/G
Silexine Paints Ltd.—43 C/G
Turner, Charles & Son Ltd.—131 F/G

• Pavement Lights

King, J. A. & Co. Ltd.—134 F/G
Pilkington Bros. Ltd.—133 F/G

• Paving

Anselm Odling & Sons Ltd.—137 F/G
Ellis, John & Sons Ltd.—285 O/N
"Noelite" Ltd.—188 H/G
Philip Flooring Co. Ltd.—470 /GG

• Plant Hire

Dandridge, Arthur F. Ltd.—443 /GG
Norton's Plant Hire—64 C/G
Pritchard, R. W. (Manufacturing) Ltd.—496 /GG
Scaffolding (Great Britain) Ltd.—126, 127 F/G, 452 /GG
Sommerfelds Ltd.—113 E/G
Steel Scaffolding Co. Ltd.—76, 77 D/G
Stephens & Carter Ltd.—326 R/N
Youngman, W. C. Ltd.—176 H/G, 209 J/G, 218 K/G

• Plaster, Plastering, Gypsum Products and Finishes

Alabastine Co. (British) Ltd.—280 O/N
Bellrock Gypsum Industries Ltd.—347 T/N, 638, 639 /EG
British Plaster Board Ltd.—94 E/G
Cafferata & Co. Ltd.—38 B/G
Callow & Keppich Ltd.—281 O/N
Gotham Co. Ltd.—273 N/N
Gyproc Products Ltd.—149 G/G
Gypsum Mines Ltd.—336 S/N
Meta Mica Ltd.—10 A/G
Pyrok Ltd.—31 B/G

• Plastic Products

Berry, J. & Sons Ltd.—413 /GG
Holoplast Ltd.—615 /EG
Imperial Chemical Industries Ltd.—86, 87 D/G
Klinger, Richard Ltd.—428 /GG
Marley Tile Co. Ltd.—181, 182 H/G, 203, 204 J/G
Nairn, Michael & Co. Ltd.—442, 444 /GG
Panel Wood Ltd.—493 /GG
Warerite Ltd.—81 D/G

• Plugs and Wall Fixings

Barrmar Tool Works Ltd.—399 Z/E
Philplug Products Ltd.—220 K/G
Rawplug Co. Ltd.—242 L/G

● Prefabricated Systems and Portable Buildings

A.B.C.D. (Raynes Park) Ltd.—275 N/N
All Purpose Building Co. Ltd.—621 E/G
Bellrock Gypsum Industries Ltd.—347 T/N, 630, 639 E/G
C.D. Productions Ltd.—656 E/G
Ellis, John & Sons Ltd.—285 O/N
Finch, B. & Co. Ltd.—12, 13, 14 A/G
Gardiner, Sons & Co. Ltd.—89 D/G
Gill, James (Engineers) Ltd.—612, 613, 614 E/G
Holoplast Ltd.—615 E/G
London & Midland Steel Scaffolding Co. Ltd.—159 G/G
Marley Tile Co. Ltd.—181, 182 H/G, 203, 204 J/G
Maycrete Ltd.—630, 631 E/G
Medway Buildings & Supplies Ltd.—112 E/G
Metal Sections Ltd.—147 G/G
Newsam, H. Sons & Co. Ltd.—446 G/G
Orlic Ltd.—600, 601, 602 E/G
Roberts, David & Co. (Engineers) Ltd.—48 D/G
Simms, W. J. Sons & Cooke Ltd.—632, 635 E/G
S.M.D. Engineers.—342 S/N
Smith, John & Co. (London) Ltd.—63 C/G
Sommerfelds Ltd.—113 E/G
Tubewrights Ltd.—324 R/N

● Pumps and Pumping Plant

Beresford, James & Son Ltd.—262, 263 N/N
Consolidated Pneumatic Tool Co. Ltd.—215, 216 K/G
Dandridge, Arthur, F. Ltd.—443 G/G
Dixon Hawksworth Ltd.—395 Y/E
Goodenough Contractors' Machinery Ltd.—321, 322 R/N
Lister, R. A. & Co. Ltd.—172, 173 H/G, 212, 213 J/G
Lyon, Arthur & Co. (Engineers) Ltd.—73, 74 D/G
Millars' Machinery Co. Ltd.—250, 259 M/N
Pegson Ltd.—59 C/G
Warsop Power Tools Ltd.—219 K/G
Wittor Ltd.—169 H/G

● Rainwater Goods

Braby, Fredk. & Co. Ltd.—229 K/G
Finlock Gutters Ltd.—354 T/N
Harvey, G. A. & Co. (London) Ltd.—150, 151 G/G
Holloway Metal Roofs Ltd.—462 G/G
Nuralite Sales Ltd.—240, 249 L/G
Vitrefflex Ltd.—318 Q/N
Vulcan Manufacturing (Wolverhampton) Ltd.—439, 441 G/G

● Refrigeration Equipment

Easiklene Porcelain-Enamel (1938) Ltd.—177 H/G 208 J/G
Eustace & Partners Ltd.—61 C/G

● Reinforced and Prestressed Concrete

Cooke, J. & Son (Huddersfield) Ltd.—532 N/G
Costain Concrete Co. Ltd.—314, 315 Q/N
Ellis, John & Sons Ltd.—285 O/N
Johnson's Reinforced Concrete Co. Ltd.—45 C/G
Marley Tile Co. Ltd.—181, 182 H/G, 203, 204 J/G
Orlic Ltd.—600, 601, 602 E/G
Prestressed Concrete Development Group—500, 501, 502, 503, 504, 505, 506 H/G

● Reinforcement Fabrics

Expanded Metal Co. Ltd.—95 E/G
Johnson's Reinforced Concrete Engineering Co. Ltd.—45 C/G
Smith, D. F. & Co. Ltd.—513 N/G
Twistell Reinforcement Ltd.—80 D/G

● Roofing Materials

Anderson, D. & Son Ltd.—129 F/G
Ashdowns Ltd.—488, 490 G/G
Bitumen Industries Ltd.—1 A/G
Braby, Fredk. & Co. Ltd.—229 K/G
Briggs, William & Sons Ltd.—32, 33 B/G
British Plumber Ltd.—178 H/G, 207 J/G
Colt, W. H. (London) Ltd.—232 K/G
Durasteel Ltd.—316 Q/N
Eastwoods Specialists Ltd.—154 G/G
Furniss & Co.—534 N/G
Harvey, G. A. & Co. (London) Ltd.—150, 151 G/G
Heywood, W. H. & Co. Ltd.—404, 406 G/G
Highways Construction Ltd.—56 C/G
Holloway Metal Roofs Ltd.—462 G/G

Holoplast Ltd.—615 E/G
King, J. A. & Co. Ltd.—134 F/G
Limmer & Trinidad Lake Asphalt Co. Ltd.—128 F/G
Metal Sections Ltd.—147 G/G
Nuralite Sales Ltd.—240, 249 L/G
Ronald, S.W. & Co. (London) Ltd.—468 G/G
Ruberoid Co. Ltd.—308, 309 Q/N
Turners Asbestos Cement Co. Ltd.—28, 29 B/G

● Rubber

British Rubber Development Board—34 B/G
Burtrain Ltd.—15 A/G
Semtex Ltd.—101 E/G
Tyre Products Ltd.—509 N/G

● Sand and Aggregate

Eastwoods Ltd.—154 G/G
Ellis, John & Sons Ltd.—285 O/N
Reed, A., Elder & Co. Ltd.—157 G/G

● Sanitary Fittings and Equipment

Adamesz Ltd.—180 H/G, 205 J/G
Allied Ironfounders Ltd.—436, 437 E/G
Conex-Terna Ltd.—75 D/G
Easiklene Porcelain-Enamel (1938) Ltd.—177 H/G, 208 J/G
Econa Modern Products Ltd.—25 B/G
Finch, B. & Co. Ltd.—12, 13, 14 A/G
Froy, W. N. & Sons Ltd.—304, 305 Q/N
Greenwood & Hughes Ltd.—194 J/G
Ideal Boilers & Radiators Ltd.—310 Q/N
Imperial Chemical Industries Ltd.—86, 87 D/G
Langley London Ltd.—132 F/G
Leeds Fireclay Co. Ltd.—227, 228 K/G
Peglers Ltd.—102 E/G
Radiation Group Sales Ltd.—264 M/N
Shires & Co. (London) Ltd.—276, 277 N/N
Simpson, W. B. & Sons Ltd.—450 G/G
Stevenson, John & Sons Ltd.—222, 223 K/G
Victory Valves Ltd.—433 G/G
Vitrefflex Ltd.—318 Q/N
Williams & Williams Ltd.—83 D/G
Yorkshire Copper Works Ltd.—146 G/G

● Scaffolding Appliances & Accessories

Acrow (Engineers) Ltd.—107, 108, 109 E/G, 425 G/G
British Building & Engineering Appliances Ltd.—164, 165 G/G
Drew Clark & Co. Ltd.—48 C/G
Kwikform Ltd.—119, 120 F/G
London & Midland Steel Scaffolding Co. Ltd.—159 G/G
Mills Scaffold Co. Ltd.—121, 122 F/G
Palmer's Travelling Cradle & Scaffold Co. Ltd.—174 H/G, 211 J/G
Roberts, David & Co. (Engrs.) Ltd.—68 D/G
Scaffolding (G.B.) Ltd.—126, 127 F/G, 452 G/G
Steel Scaffolding Co. Ltd.—76, 77 D/G
Stephens & Carter Ltd.—326 R/N
Sterling Foundry Specialities Ltd.—70 D/G
Stewarts & Lloyds Ltd.—324 R/N

● Sheradizing & Rust Proofing

Metsprays Ltd.—554 N/G
Revol Ltd.—303 Q/N
Tretol Ltd.—230 K/G
Zinc Alloy Rust Proofing Co. Ltd.—348 T/N

● Shop Fittings

Eustace & Partners Ltd.—61 C/G
Johnson, G. Bros. Ltd.—125 F/G
London Sand Blast Decorative Glass Works Ltd.—148 G/G
Price, D. W. & Son Ltd.—351 T/N
Volspray Ltd.—421 G/G

● Stairs & Stair Treads

Adamite Co. Ltd.—537 N/G
Braby, Fredk. & Co. Ltd.—229 K/G
Expanded Metal Co. Ltd.—95 E/G
Ferodo Ltd.—55 C/G
Forsters Machine Co. Ltd.—465, 467 G/G
Safety Tread Ltd.—606 E/G
Williams & Williams Ltd.—83 D/G

● Stone

Anselm Odling & Sons Ltd.—137 F/G
Bath & Portland Stone Firms Ltd.—41 C/G

● Stone Reconstruction, Preservation, Cleaning

Ellis, John & Sons Ltd.—285 O/N
Sal-Ferricite & Trading Co. Ltd.—37 B/G
Silixene Paints Ltd.—43 C/G

True-Crete Ltd.—11 A/4
Turner, Charles & Son Ltd.—131 F/G

● Structural Steel Work and Metal Joists

Benfix Steel Co. Ltd.—45 C/G
Gardiner Son & Co.—89 D/G
Metal Sections Ltd.—147 G/G
Sommerfelds Ltd.—113 E/G
Thompson, John, Beacon Windows Ltd.—298 P/N

● Tarpaulins

Cayless Bros. (Battersea) Ltd.—17, 18 B/G
Pritchard, R. W. (Mfg.) Ltd.—496 G/G
Smith, John & Co. (London) Ltd.—83 C/G
Stephens & Carter Ltd.—326 R/N
Youngman, W. C. Ltd.—176 H/G, 209 J/G, 218 K/G

● Theatre Tickets

Prowse, Keith & Co. Ltd.—236 L/G

● Tools

British Building & Engineering Appliances Ltd.—164, 165 G/G
Churchill, H. & D. Ltd.—385 X/E
Deaves, R. J.—415 G/G, 541 N/G
Impregnated Diamond Products Ltd.—377 X/E
Key Engineering Ltd.—69 D/G
Lawler, Ayres & Co. Ltd.—279 O/N, 430 G/G
M.E. Engineering Ltd.—62 C/G
Philplug Products Ltd.—220 K/G
Rawplug Co. Ltd.—242 L/G
Reed, A. Elder & Co. Ltd.—157 G/G
Ruddick, Harold G. & Co. Ltd.—515 N/G
Shaw, A. & Son (Diamonds) Ltd.—459 G/G
Shetack Tool Works Ltd.—344 S/M
Skarsten Manufacturing Co. Ltd.—429 G/G
Tubela Engineering Co. Ltd.—466 G/G
Youngman, W. C. Ltd.—176 H/G, 209 J/G, 218 K/G

● Tools—Power Driven

Adam & Harvey (Rapid Hammer) Ltd.—319 R/N
Bridges, S. N. & Co. Ltd.—323 R/N
British Equipment Co. Ltd.—210 J/G, 175 H/G
Central Tool & Equipment Co. Ltd.—422 G/G
Churchill, H. & D. Ltd.—385 X/E
Cole, E. R., Ltd.—435 G/G
Consolidated Pneumatic Tool Co. Ltd.—215, 216 K/G
Flexible Drive & Tool Co. Ltd.—214 K/G
Flexitol, Engineering Co. Ltd.—35 B/G
Impregnated Diamond Products Ltd.—377 X/E
Kango Electric Hammers Ltd.—179 H/G, 206 J/G
Philplug Products Ltd.—220 K/G
Rawplug Co. Ltd.—242 L/G
Reed, A. Elder & Co. Ltd.—157 G/G
Ruddick, Harold G. & Co. Ltd.—515 N/G
Tyzack, S. & Son Ltd.—425, 427 G/G
Ward, Thos. W., Ltd.—170 H/G
Warsop Power Tools Ltd.—219 K/G
Wolf Electric Tools Ltd.—489, 491 G/G

● Valves

Conex Terna Ltd.—75 D/G
Crane Ltd.—268 N/N
Gulf Radiators Ltd.—244 L/G
Peerless Built-in-Furniture Ltd.—41 B/G
Victory Valves Ltd.—433 G/G

● Venetian Blinds & Jalousies

Avery, J. & Co. (Est. 1834) Ltd.—414 G/G
Crittall Manufacturing Co. Ltd.—98 E/G
Danaura Ltd.—547, 549 N/G
Holcon Ltd.—47 C/G
Hope, Henry & Sons Ltd.—90, 91 D/G
Metal Sections Ltd.—147 G/G
Venetian Vogue Ltd.—317 Q/N

● Ventilators and Space Heating Equipment

Cole, E. R., Ltd.—435 G/G
Colt, W. H., (London) Ltd.—232 K/G
Copperadd, Ltd.—124 F/G
Flexaire, Ltd.—143 G/G
Frenger Ceilings Ltd.—529 N/G
Greenwoods & Airvac Ventilating Co. Ltd.—192 H/G
Ide, T. & W. Ltd.—287 O/N
Radiation Group Sales Ltd.—264 M/N

● Wall Boards, Panelling and Wallpapers

Aircrow Co. & Jicwood Ltd.—548 N/G
Berry, J. & Sons Ltd.—413 G/G

British Plaster Board.—94 E/G

British Plumber Ltd.—178 H/G, 207 J/G
Byrce White & Co. Ltd.—93 E/G
Cellacite & British Uralite Ltd.—245 L/G

Celotex Ltd.—30 B/G

Compactum Ltd.—538, 540 N/G

Crefield, C. V. & Co. Ltd.—428 G/G

Gyproc Products Ltd.—149 G/G

Hallinson, Wm. & Sons Ltd.—100 E/G

Manonite, Ltd.—187 H/G, 198 J/G

Meyer, Montague L., Ltd.—304 Q/N

Moulded Components (Jablo) Ltd.—522 N/G

Panelwood Ltd.—493 G/G

Stramit Boards, Ltd.—237, 238 L/G

Thames Board Mills Ltd.—525, 527 N/G

Warerite Ltd.—81 D/G

● Walls and Wall Cladding

Bath & Portland Stone Firms Ltd.—42 C/G
Benton, Edward & Co. Ltd.—408 G/G
British Art Tile Co. Ltd.—270 A/N
Cape Asbestos Co. Ltd.—241 M/N
Colt, W. H. (London) Ltd.—232 K/G
Neolite Ltd.—188 H/G
Orlic Ltd.—600, 601, 602 E/G
Pilkington Bros. Ltd.—133 F/G
Turners Asbestos Cement Co. Ltd.—28, 29 B/G
Williams & Williams Ltd.—83 D/G

● Water Softeners

Economic Water Softeners Ltd.—24 B/G

● Windows and Fittings

Chamberlain Weatherstrips Ltd.—464 G/G
Crittall Manufacturing Co., Ltd.—98 E/G
English Joinery Manufacturers Ass'n.—142 G/G
Esavian Ltd.—40 B/G
Gardiner Son & Co.—89 D/G
Holcon Ltd.—47 C/G
Hope, Henry & Sons Ltd.—90, 91 D/G
Johnson, G. Bros., Ltd.—125 F/G
King, J. A., & Co. Ltd.—134 F/G
Sharp Bros. & Knight Ltd.—293 P/N
Sommerfelds Ltd.—113 E/G
Thompson, John, Beacon Windows Ltd.—298 P/N
Unique Balance Co. Ltd.—474 G/G
Williams, John, & Sons (Cardiff) Ltd.—216 K/G
Williams & Williams, Ltd.—83 D/G

● Wire Products (Nails, etc.)

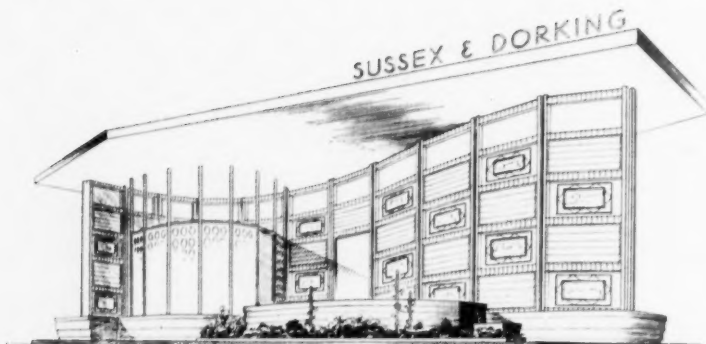
Harvey, G. A. & Co. (London) Ltd.—150, 151 G/G
Holcon Ltd.—47 C/G
Penfold Fencing & Engineering Ltd.—44 C/G
Smith, D. F. & Co. Ltd.—513 N/G
Vulcan Manufacturing Co. (Wolverhampton) Ltd.—439, 441 G/G

● Wood Wool Slabs

Marley Tile Co. Ltd.—181, 182 H/G, 203, 204 J/G
Thermacoust Ltd.—89 D/G

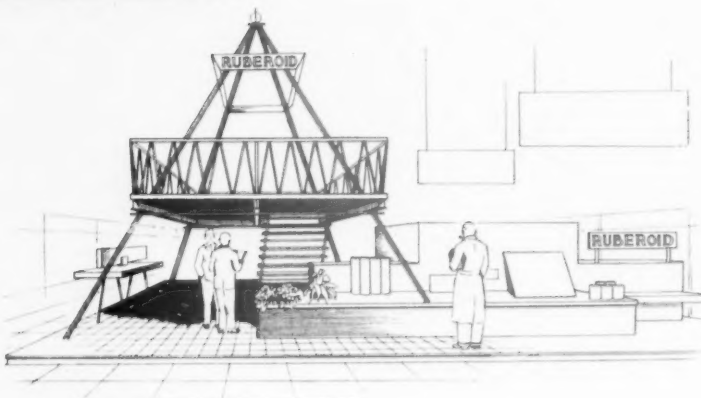
● Woodworking Machinery

Brookman, R. S., Ltd.—390 Y/E
Cookley, A., & Co. Ltd.—384 X/E
Dankkaerts Woodworking Machinery Ltd.—396 Y/E
Dominion Machinery.—362 V/E
G. & L. Machinery Ltd.—394 Y/E
Houghton Engineers Ltd.—350 U/F
Interwood Ltd.—389 Y/E
Kine Engineering Co. Ltd.—392 Y/E
Liner Concrete Machinery Co. Ltd.—271 N/N
Midland Saw & Tool Co. Ltd.—376 X/E
Osman, Wm.—469, 471 G/G
Parry & Sons (Tools) Ltd.—423 G/G
Pickles, John, & Son (Engineers) Ltd.—368 V/E, 369 W/E
Roberts, David, & Co. (Engineers) Ltd.—68 D/G
Robinson, Thomas, & Son, Ltd.—367 V/E, 370 W/E
Rye Engineering Works (High Wycombe) Ltd.—393 X/E
Sagar Developments Ltd.—350 U/E
Sagar, J., & Co. Ltd.—366 V/E, 371 W/E
Stenners of Tiverton Ltd.—365 V/E
Teles Smith Ltd.—514, 516 N/G
Tong, M. P.—555a N/G
Tyzack, S., & Son Ltd.—425, 427 G/G
Wadkin Ltd.—359 U/E
Ward, Thos. W., Ltd.—170 H/G
White, Thos., & Sons Ltd.—364 V/E, 373 W/E
Whitehill Spindle Tools Ltd.—398 Z/E
Wilson Bros. (Leeds) Ltd.—375 W/E
Wolf Electric Tools Ltd.—489, 491 G/G



The Sussex and Dorking Brick Co. Ltd.'s stand designed by Lanchester & Lodge. The curved display wall is constructed of pre-fabricated brick panels in varying colours, inset in dark brown brick frames. These brown brick frames are units within an exposed cream tubular framework. The curved wall screening the office is of octagonal tiles; tables are brickwork with birch tops; seats are upholstered.

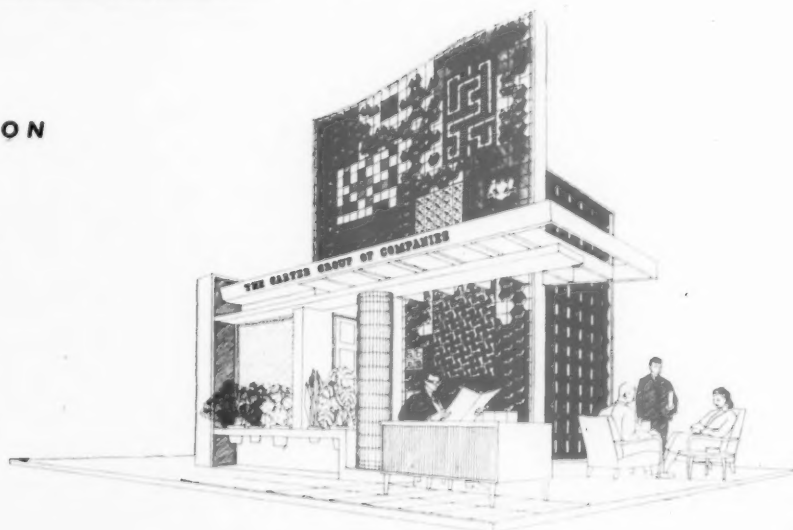
Stand for Ruberoid Ltd. designed by Eric Brown, L.R.I.B.A., M.S.I.A. The stand is designed to give a comprehensive display of products and specifications under working conditions. The second tier shows the Ruberoid Steel Deck and the Ruberoid Aluminium Deck, the original system of lightweight metal roof deckings. Mineral Surfaced Roofing and Strip Slates in a variety of colours are prominently displayed.



This stand is of unusual interest as it was designed by Mr. R. H. Gordon, a Second Year Student of the Hammersmith School of Building. Rawlings Bros. Ltd. of South Kensington decided to run a Competition in which Students of the Hammersmith School of Building were invited to submit a design for the Company's stand in the Building Exhibition. The Sponsors enlisted the assistance of Mr. Wells Coates, O.B.E., F.R.I.B.A., who acted as Assessor, and the Competition was run in accordance with the rules laid down by the R.I.B.A.

STANDS AT THE BUILDING EXHIBITION

The stand of Carter Ltd. is designed by A. B. Read, R.D.I., A.R.C.A., Director of Design to the Carter Group of Companies, with Christopher Read, A.R.I.B.A., as consulting architect. The stand is a composition in materials—decorated and plain wall tiles, floor tiles, marble, terrazzo and magnesite flooring. The range of these products has been increased and improved technically since the 1951 Building Trades Exhibition.





View from south-west

HOUSE AT OTHAM, Near Maidstone

Architect: BRIAN PEAKE, F.R.I.B.A., A.A.Dip.(Hons.)

Assistant: M. E. WOODFORD

Quantity Surveyors: JOSLING & HAMLYN

THIS house has been designed by the architect for his own use. The site consists of an orchard of approximately one acre on the western side of a lane running north and south. The orchard contains some fine old fruit trees and slopes gently towards the lane on the east. A high degree of privacy is obtained on this site which is in the centre of a small Kent village.

The house was planned and carefully positioned on the site so that as many as possible of the rooms could enjoy a fine view of the Pilgrims' Way and at the same time have a sunny aspect. The Living-room has full height glass for the whole length of its southern wall, part of which can slide aside to give access to the terrace. The large roof overhang over these windows prevents excessive entry of the sun in summer. The sliding door, which weighs several cwt owing to the double glass, runs on ball-bearing runners on a rubber-covered track. The terrace is flush with the Living-room floor so that trolleys, etc., can be wheeled out. The terrace is a sun-trap facing south-west, being protected on the east by the projecting Bedroom wing. The Living-room fireplace is so planned on the north side of this room to make it possible to sit round the fire and enjoy the view through the window in the east wall. Indeed, the view is seen through this window from all parts

of the Living-room. The sill level, by virtue of the changes of level between the drive, Hall and Living-room, is above the eyeline of people in the drive.

Off the Entrance Hall are planned the Main Bedroom, Bathroom and Dressing-room/Study, all facing east (and the view) and the Bedroom has, in addition, a large window facing south and a door opening on to the garden.

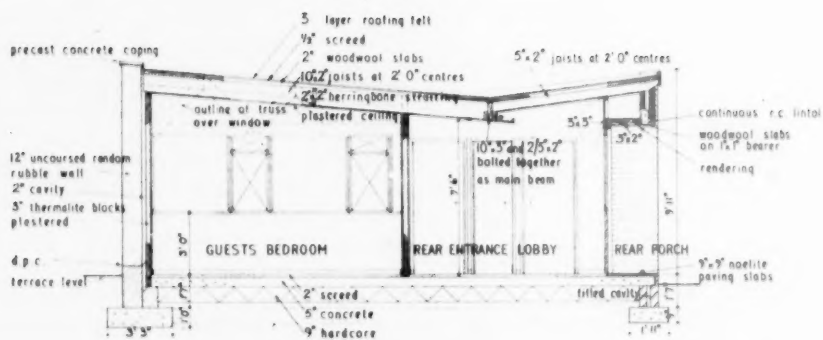
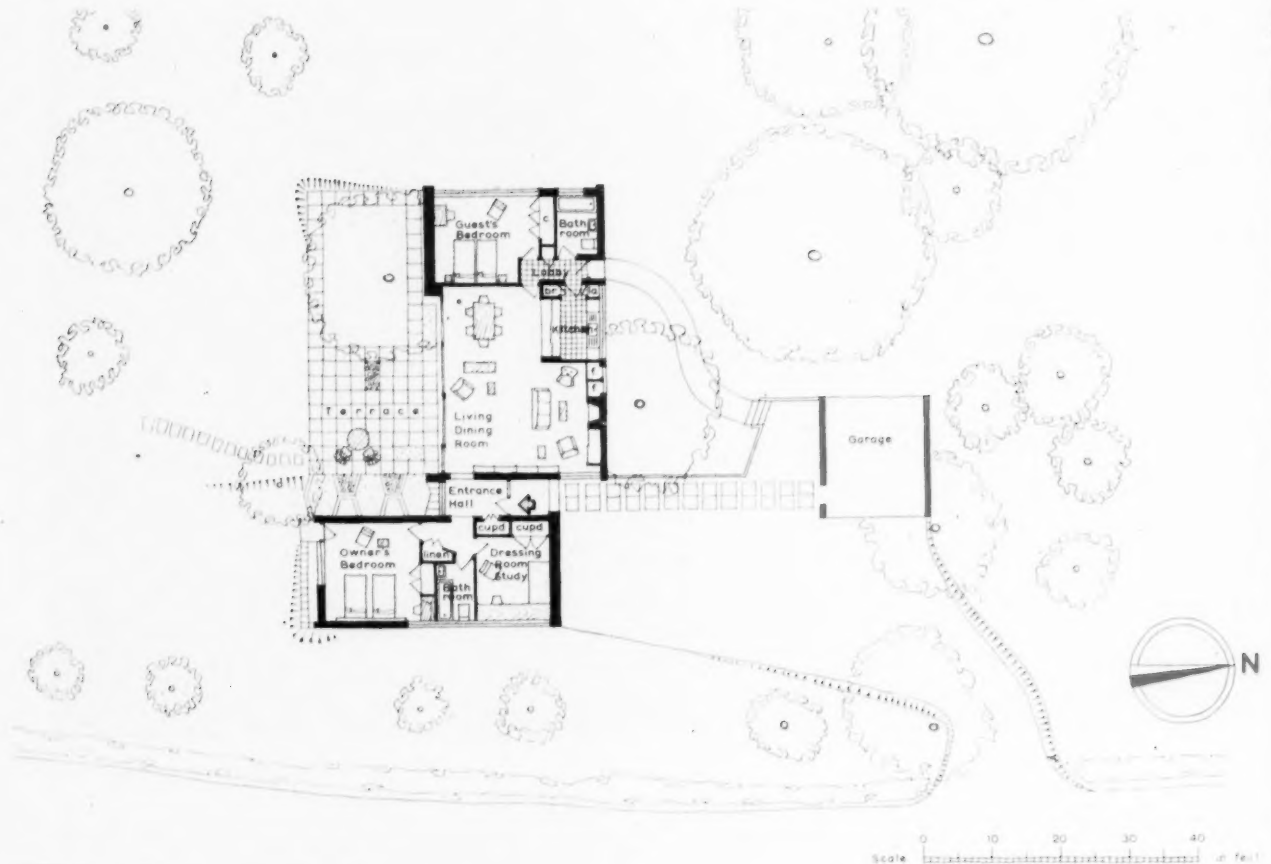
The Guest Bedroom and Bathroom are planned as a separate and private suite at the other end of the house facing west. This accommodation can, if necessary, be used for living-in staff.

A small kitchen is connected to the dining end of the Living-room by a fitting containing a hatch and two-way cupboards and drawers. Adjacent is a two-way cupboard through which a service trolley can be passed (and in which the trolley is stored).

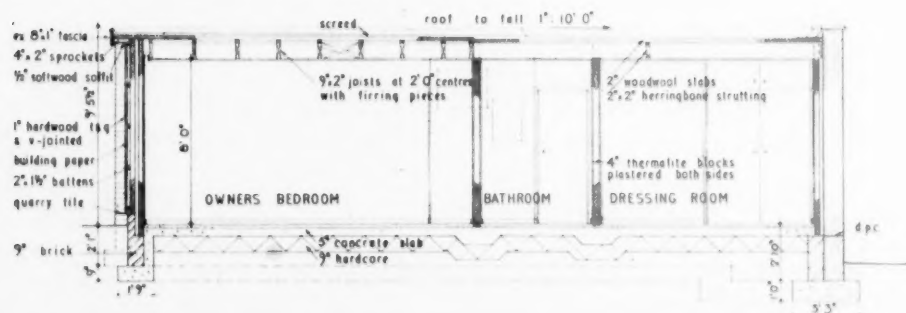
Construction

Walls are of cavity construction, the inner skin consisting of high insulation value Broad-Acheson blocks, the outer skin of either local multi-colour facing bricks, Kentish Ragstone (from a quarry two miles away) or blocks rendered with a pale blue-grey cement render. Metal and wood windows are painted white.

(Continued on page 573)



SECTIONS SOUTH TO NORTH THROUGH WINGS. SCALE: 1/4" = 1'



HOUSE AT OTHAM

Continued from page 571

Floors are solid concrete covered with a screed containing embedded resistance wire radiant heating and are finished mostly with seamless close carpeting, with random joint multi-colour marble paving in the Hall.

Flat roofs are of timber construction covered with 2in woodwool, screed and patent roofing felt with white spar finish. The roofs are so designed as to discharge into one small length only of gutter over the front porch. Roof shapes are expressed internally. In the Living-room not only does this open up the room to the sun but increases the apparent size of the room. The main part of the Living-room ceiling is finished with Unitex V-jointed insulating board which, in addition to its insulation and sound-deadening properties, provides an interesting pattern on a large, unbroken area.

All large panes of glass are in Insulight double-glazing.

Heating and hot-water heating, together with cooking and refrigeration, is by electricity, which was chosen for its cleanliness and complete lack of need for any attention. The heating is, in fact, left permanently switched on winter and summer. This radiant floor heating is thermostatically controlled. The water heaters and the towel-rails in Kitchen and Bathrooms are also thermostatically controlled, the latter providing heat to these two rooms. There are 12 thermostats in the house.

Furnishing

The furnishing throughout has been either selected or designed especially by the Architect. The two-way fitting between the Kitchen and Living-room is in Honduras Mahogany with pale blue Warerite door panels and a pale grey Warerite work-top into which is set a flush hot plate. A part of the local survey map is impregnated into the Warerite facing to one of the doors.

Fitted cupboards in the Kitchen are painted white with pale grey Warerite work-tops. The ceiling is pale yellow and the floor two shades of warm brown/red Semtex tiles. Curtain track is fitted in all rooms in built-in recesses above windows.

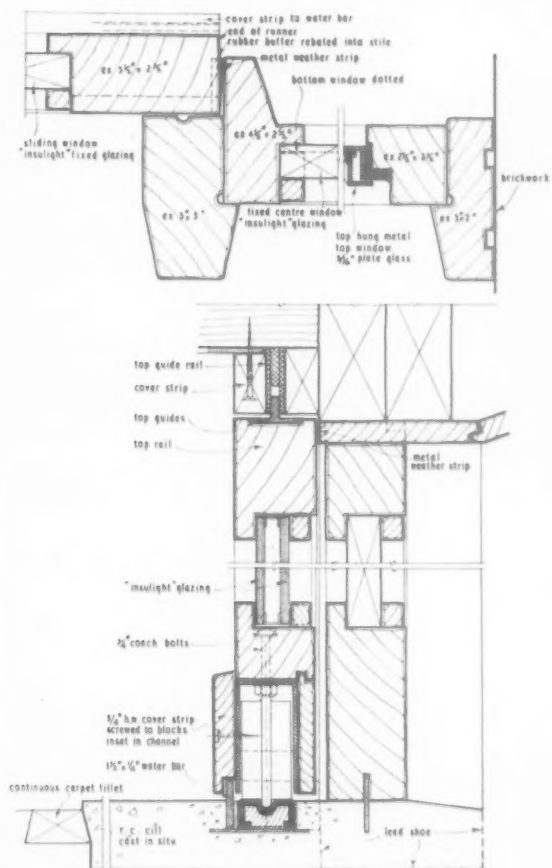
The cost of the house without any furniture or fittings and without the landscape work was just over £5,000.

General Contractor: G. E. Wallis & Sons Ltd.

Bricks: Medway Valley Brick Co. Bricks for fireplace: Stonehenge Brick Co. Door furniture: A. J. Binns & Co., Ltd. Double Glazing: Pilkington Bros. Electrical: G. E. Wallis (Electrical), Ltd. Electric water heaters: Aidas, Ltd. Fabric: David Whitehead. Furniture & furnishings: William Perring & Co., Ltd.; Hille of London, Ltd.; Dunn's of Bromley; Ernest Race. Garden work, driveway & Terrace (to architect's design): Arthur Charlton & Sons, Ltd. Heating: Dulrae, Ltd. Interior Plants: West End Flower House. Kitchen floor: Semtex, Ltd. Light fittings: Troughton & Young; Courteney, Pope, Ltd. Marble flooring: Art Pavements, Ltd. Metal windows: Williams & Williams, Ltd. Roofing: D. Anderson & Sons, Ltd. Sanitary fittings: W. N. Froy & Sons, Ltd. Sliding door gear: Silent Gliding Doors, Ltd. Stone: A. H. Hooker & Sons, Ltd. Venetian blinds: J. Avery & Co. Wallboard ceiling: Merchant Trading Co., Ltd. Wallpaper: Sanderson, Ltd. Furniture designed by the Architect: Mahogany dining-chairs, low tables, painted bookcase fitting, upholstery, Sycamore bedhead fitting (Bedroom I): F. W. Clifford, Ltd. Sycamore fitted dressing-table, painted cupboard (Bedroom I), Kitchen and Livingroom fitting: A. E. Franks.

These three views show the vista from the garage, through the front door and entrance hall to the ornamental flower beds on the east side of the terrace.





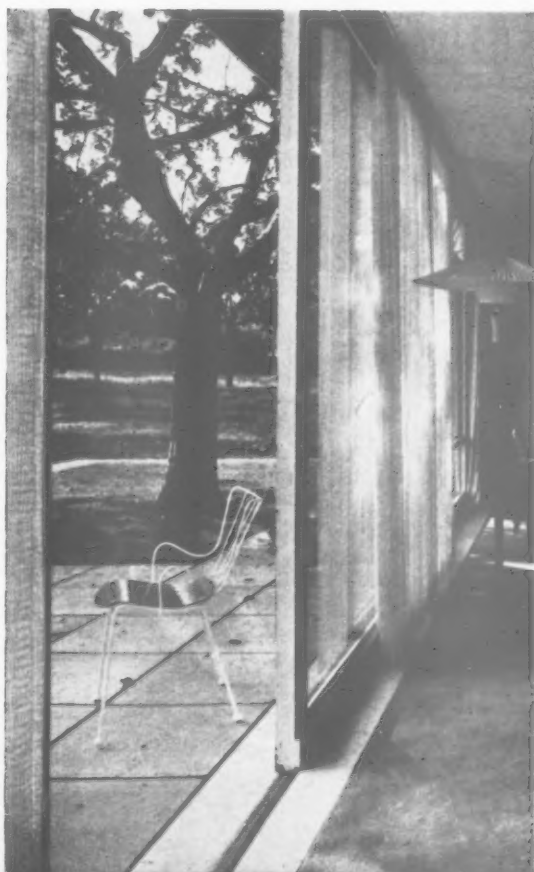
Owner's Bedroom



Kitchen



Owner's Bathroom



A LOGICAL APPROACH TO

Colour

The imaginative use of colour has been one of the most distinctive features of development in architectural technique of the last two decades.

A limiting factor in practice has been the absence of any absolute standard of colour classification and comparison. It is, therefore, with genuine pleasure that we can announce the successful outcome of several years of applied research in this field.

The Ministry of Education has standardised a range of 47 colours and classified them according to the Munsell system. Our technical experts were privileged to co-operate with the Ministry in making this selection, which we now produce from nine basic tinters of proved fastness. The complete range is available in super-gloss and semi-gloss finishes, and a selection of colours can be supplied in flat oil paint, washable water paint and Vydok Emulsion finish.



The scope of this important development is described in a booklet entitled "**Colour with a purpose,**" which also contains much interesting matter concerning some of the latest developments in colour usage. A copy, together with a range of colour chips, will gladly be sent to any architect upon request.



The Ministry of Education has applied the name "Archrome" to the new colour range and has included much valuable data about it in their Building Bulletin No. 9 (Colour in School Buildings).

DOCKE R B R O T H E R S

Makers of Paints, Lacquers and Varnishes for every purpose

LADYWOOD • BIRMINGHAM 16





New Factory at Crawley, Sussex, for A.P.V. Co., Ltd., designed by W. S. Atkins & Partners, London and roofed with Briggs Bitumetal, The Modern Development in Aluminium.

Roofs need no longer be laid in dull drab uninteresting finishes. Briggs Mineral Surfaced Roofings provide a range of attractive colours, each colour permanent and unfading, obtained from crushed natural minerals unaffected by time and weather.

This large modern factory, where roofing security is an important factor, is covered with a cap sheet of Green Mineral which harmonises pleasantly with surroundings.

Ask our nearest Area Manager for the latest technical details of Mineral Surfaced Roofings, adaptable for laying on any deck.

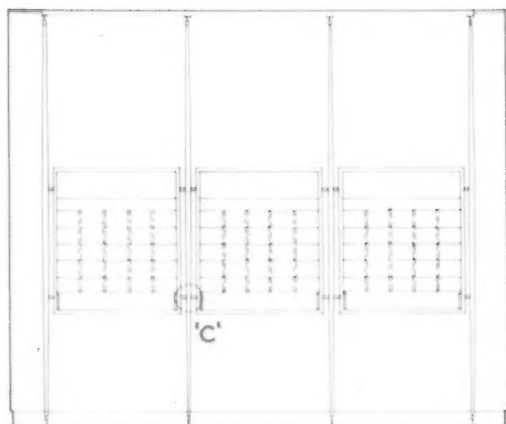
Interesting **NEW** developments in roof construction will be seen at **OUR STAND No. 2333, Row "B," BUILDING EXHIBITION OLYMPIA.**



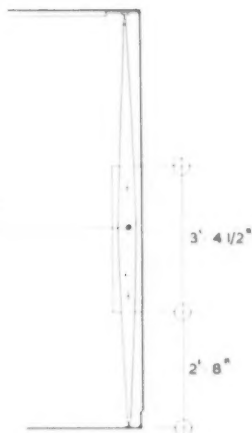
WILLIAM BRIGGS & SONS LTD

London, Vauxhall Grove, S.W.8 Regd. Office Dundee

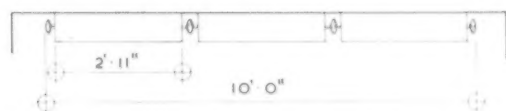
OFFICES & DEPOTS ALSO AT ABERDEEN • BELFAST • BRISTOL
EDINBURGH • GLASGOW • LEICESTER • LIVERPOOL • NORWICH



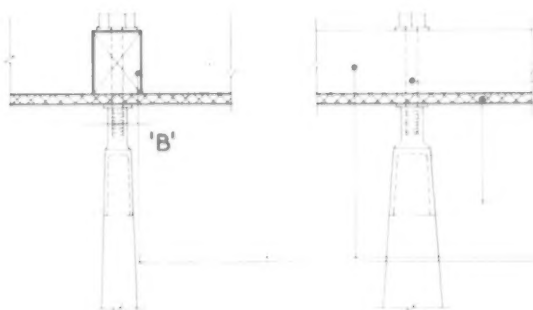
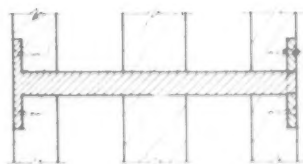
FRONT ELEVATION



SECTION



PLAN

DETAIL OF CAP FITTINGS
ON MAHOGANY COLUMNSDETAIL
AT 'B'

DETAIL AT 'C'

SCALES : 1/4" TO 1'-0"
& 1/4 FULL SIZE

COLUMNS OF LAGOS
MAHOGANY 5" x 1 1/2" AT
LARGEST SECTION

OUT OF 8 1/2" x 1" ABURA

1/4" FILLETS AT EACH END

1/4" SOFTWOOD PAMPHLET
DIVISIONS

5/16" BOLT THREADED TO
CAP CASTING
(BOLT RAGGED FOR FLOOR
FITTING TO CONCRETE)

PLASTER BOARD

CEILING BATTEN

3/16" PLATE GLASS

3/16" PLYWOOD

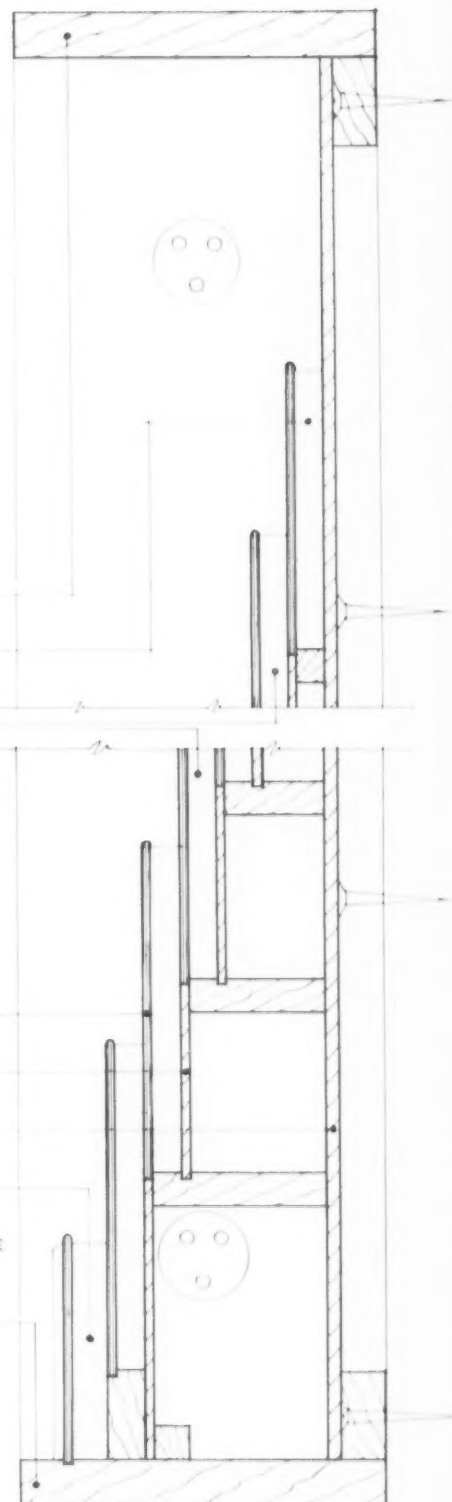
1/4" PLYWOOD BACK

1/4" FILLETS AT EACH END

SCREW THREAD TO FLANGE
& STEM AT ONE END ONLY

OUT OF 8 1/2" x 1" ABURA

NOTE : ALL METALWORK
IS IN SILVER ANNOXIDISED
ALUMINIUM

SECTION THROUGH
PAMPHLET CASE



PAMPHLET DISPLAY FITMENT, PADDINGTON
RAILWAY EXECUTIVE, WESTERN REGION

Preservation of Historic Churches

Advisory Panels of Specialist Architects

THE Historic Churches Preservation Trust has set up advisory panels of architects, who have special competence in the repair of churches, to advise the Trust when grants are to be made. These panels have been set up after consultations between the Trust, the Central Council for the Care of Churches and the Royal Institute of British Architects.

The panels cover the whole of England, which for this purpose is divided into eleven regions, each region including a group of dioceses and having a separate panel. The Trustees have among their number two architects with wide experience in the repair or building of churches, Mr. Walter H. Godfrey, C.B.E., F.S.A., F.R.I.B.A. and Mr. Edward Maufe, R.A., F.R.I.B.A., and, as their advice is always available to their fellow Trustees, they are not included in the regional panels. The following specialist architects are being invited to serve on the panels.

SOUTH-EASTERN REGION

Dioceses: Canterbury, Chichester and Rochester. Proposed Panel: W. H. Ansell, M.C., F.S.A., P.-F.R.I.B.A.; W. E. Godfrey, A.R.I.B.A.; D. Nye, L.R.I.B.A.; A. B. Knapp-Fisher, F.S.A., F.R.I.B.A.

LONDON REGION

Dioceses: London, Chelmsford and Southwark. Proposed Panel: W. Godfrey Allen, F.R.I.B.A.; S. E. Dykes Bower, F.S.A., F.R.I.B.A.; Alban Caroe, F.R.I.B.A.; Leslie T. Moore, M.C., F.R.I.B.A.; Professor A. E. Richardson, R.A., F.R.I.B.A.

EAST ANGLIA REGION

Dioceses: Ely, Lincoln, Norwich, St. Edmundsbury and Ipswich. Proposed Panel: Lawrence H. Bond, I.R.I.B.A.; H. C. Hughes, F.R.I.B.A.; Laurence King, F.R.I.B.A.; Marshall Sisson, F.S.A., F.R.I.B.A.; Arthur Welford, F.S.A., A.R.I.B.A.

SOUTH MIDLAND REGION

Dioceses: Oxford, Leicester, Peterborough, St. Albans. Proposed Panel: Frederick Etchells, F.R.I.B.A.; Hope Bagenal, D.C.M., F.R.I.B.A.; Professor A. E. Richardson, R.A., F.R.I.B.A.; Thomas Rayson, F.S.A., F.R.I.B.A.

MIDLAND REGION

Dioceses: Birmingham, Coventry, Derby, Lichfield, Southwell. Proposed Panel: P. B. Chatwin, F.S.A., F.R.I.B.A.; J. E. M. Macgregor, F.S.A., F.R.I.B.A.; G. C. Pace, F.S.A., F.R.I.B.A.; Francis W. B. Yorke, F.R.I.B.A.

WELSH BORDER REGION

Dioceses: Gloucester, Hereford and Worcester. Proposed Panel: W. H. Randall Blacking, F.S.A., F.R.I.B.A.; Major H. Stratton Davis, M.C., F.S.A., F.R.I.B.A.; D. G. Martin, F.R.I.B.A.

Robert Potter, F.R.I.B.A.; E. A. Roiser, L.R.I.B.A.

WESTERN REGION

Dioceses: Bath & Wells, Bristol, Exeter, Salisbury and Truro. Proposed Panel: W. H. Randall Blacking, F.S.A., F.R.I.B.A.; H. M. R. Drury, F.R.I.B.A.; G. D. Gordon Hake, F.R.I.B.A.; Allan Reed, A.R.I.B.A.; P. Hartland Thomas, F.R.I.B.A.

SOUTH-WESTERN REGION

Dioceses: Winchester, Guildford and Portsmouth. Proposed Panel: J. L. Denman, F.R.I.B.A.; Lord Mottistone, F.R.I.B.A.; B. C. G. Shore, L.R.I.B.A.

LANCASHIRE & CHESHIRE REGION

Dioceses: Blackburn, Chester, Liverpool and Manchester. Proposed Panel: L. R. Foreman, A.R.I.B.A.; Bernard Miller, F.R.I.B.A.; William A. Singleton, A.R.I.B.A.; Sir J. H. Worthington, A.R.A., F.R.I.B.A.; W. Cecil Young, F.R.I.B.A.

YORKSHIRE REGION

Dioceses: York, Bradford, Ripon, Sheffield and Wakefield. Proposed Panel: Francis Johnson, F.R.I.B.A.; G. C. Pace, F.S.A., F.R.I.B.A.; K. Ward, F.R.I.B.A.

NORTH-EASTERN REGION

Dioceses: Durham, Carlisle, Newcastle. Proposed Panel: C. B. Martindale, F.R.I.B.A.; Francis Johnson, F.R.I.B.A.; Ian G. Lindsay, F.R.I.B.A.

In forming these panels an effort has been made to select for each region a small group of senior architects, held in respect throughout the profession, who either live in the region or are specially connected with it by their practice.

The main purpose of this organization is to ensure that money granted by the Trust will be wisely spent. Long experience has shown the supreme importance of entrusting the repair of historic churches to men who have the aptitude and special knowledge needed for the work. The reproach of tasteless restoration and of vandalism which has attached to so much work in the past must be ended and this scheme of advisory panels is designed to ensure that all church-repair aided by the Trust shall be carried out on principles that are generally approved by informed opinion.

These panels are not intended to provide lists of architects recommended for the carrying out of repairs. Each parochial church council will remain free, as now, to engage the architect of its choice. Lists of architects who have had experience in the care and restoration of churches have been compiled by the Royal Institute of British Architects in consultation with its allied societies, and the Trustees are considering with the Central Council for the Care of Churches the best use to which this material can

be put. The Trust will make it a condition of a grant that a competent architect shall be employed to superintend and direct the work, but will not attempt to influence the choice. Membership of a panel will not, of course, debar any architect from accepting a commission to repair a church in the normal course of his professional duties.

Where the architect is selected without the prior advice of the panel, the Trust will require that his name and particulars of his experience be submitted before a grant is made. These particulars will be submitted to one or more members of the panel, and in many cases will probably be sufficient to enable the choice of the architect to be approved. But if the selected architect is hitherto unknown, or if his experience has been in classes of work other than the repair of historical buildings, he will be asked to submit such reports, specifications and plans as the panel or member of the panel may require in order that his proposals and the methods which he intends to employ may be examined. The member of the panel will in this way be enabled to make such helpful suggestions as will ensure a satisfactory result; and the Trust is confident that this assistance of the panels, and any consultations that may follow, will be welcomed by all architects wishing to familiarize themselves with the principles that should govern sound reparations. The ultimate decision with regard to any action taken after advice has been received from members of a panel will rest with the Trustees, who will assume full responsibility for it.

T. & C.P.A. Conference

A conference on "Financial Problems of Planning," organized by the Town and Country Planning Association, is to be held in the Conference Hall, County Hall, London, on November 19 and 20. The Rt. Hon. Harold Macmillan, M.P., Minister of Housing and Local Government, is to open the Conference at 10.15 on Thursday, 19th, and will be followed by Mr. Desmond Heap on "Planning and £ s d," and Lord Silkin on "Compensation and Betterment." The following day's programme is to be opened by the Rt. Hon. Aneurin Bevan, M.P., and the speakers will be Sir Howard Roberts on "Problems of Industrial Evacuation," and Mr. F. J. Osborn on "Effect of Housing Subsidies."

R.I.B.A. Library Group Meeting

The next meeting of the Library Group will be held on Monday, November 16, at 6 p.m. at the Royal Institute of British Architects, 66, Portland Place, W.1.

The evening will be devoted to 19th century working class housing with special reference to the work of Henry Roberts. Mr. Arthur M. Foyle, A.R.I.B.A., will introduce the subject.

LEGAL NOTE

Execution of Work Involving Interference with Party Structures

WHERE a wall separates the building of one person from the building of another or is otherwise a "party wall" and work is contemplated by one of the owners which will involve interference with the wall, what are the respective rights of each owner? For this purpose the person who is desirous of executing the work is called "the building owner," while the person who is the owner of the adjoining property is called "the adjoining owner."

Thus, for instance two adjoining buildings belonging to different owners A and B may be divided by a single wall, which gives support to each building on either side. Suppose now that A wants to pull down his building and rebuild it, or to make alterations to it, and that the work contemplated will necessitate making an opening in the party wall, or cutting into it, or making it of a greater thickness, or otherwise interfering with it, what steps must A take and what are B's rights in the matter?

Before A is entitled to put the work in hand, he is required under the London Building Acts to observe the procedure there laid down, and if he fails to do so, in any respect, he may find himself in serious difficulty.

Contents of Party Structure Notice

The first thing he must do is to serve the adjoining owner with the appropriate "party structure notice." This notice must be clear and unambiguous; it must state the nature and particulars of the proposed work. Thus specifications and plans and drawings should accompany the notice so that the adjoining owner can know exactly what is proposed to be done. And further the notice must state the time at which the work will be begun.

If a notice does not comply with all these requirements it will be a bad notice and the building owner will not be entitled to commence the work. Here it may be said that it is not sufficient to serve a notice which merely sets out and copies the language of the Act itself about the kind of work which a building owner may do.

Persons To Be Served With the Notice

The Act requires this "party structure notice" to be served on "the adjoining owner." Where premises are let on lease and the tenancy is for a fixed period, and not one from year to year or for any less time, not only the landlord but also the tenant will satisfy the description of "the adjoining owner."

What has to be remembered is that every person who is in receipt of the rents from the adjoining property or any part of it, or who is in occupation of it as a tenant with a greater interest than that of a yearly tenant, must be served with the notice. It is of no use in such a case to serve only one of the adjoining owners whether he be the

landlord or the tenant; the building owner will still not be in a position to carry out the work.

Counter Notice by Adjoining Owner

The adjoining owner on receipt of the party structure notice may desire to object and to put forward counter suggestions, in which event he should serve a counter notice on the building owner indicating his objections and counter proposals. If the building owner does not consent to the counter notice a difference will automatically be regarded as having arisen between the two owners.

And where the adjoining owner expressly objects or fails to give his consent or within 14 days put forward counter proposals a difference will likewise arise which would have to be solved.

Solution of Differences

How are these differences to be settled? The Act lays down a special procedure. The first step will be the appointment of a surveyor to go into the matter. One surveyor only can be appointed if the parties agree. Otherwise each party will appoint his own surveyor and thereupon the two surveyors will appoint a third surveyor.

The surveyor or the surveyors as the case may be will have adjudicated on the matter, and they will make an award settling the dispute. The award may determine the right to execute any work, and the time and manner of its execution. The award further will deal with the costs incurred in connection with the award as well as the cost of the reasonable supervision of carrying out any of the work.

Appeal Against Award

The award will be conclusive unless an appeal is brought against it. The appeal will be to the County Court, and it must be brought within 14 days of the delivery of the award.

Apportionment of Expenses

Where work to a party wall is involved, the question of meeting the cost and expenses will arise. The Act provides for the apportionment of the expenses between the building owner and the adjoining owner or owners, though in some cases the expenses may have to be borne solely by the building owner. To take some instances: The building owner must himself bear the expense of *underpinning, thickening, raising or cutting into* any party wall. But in other cases in which the adjoining owner may be regarded as benefiting to some extent from the work done in relation to the party wall, the expenses will be apportioned between the building owner and the adjoining owner in proportion to the use which they respectively make of the wall, and in some cases to the thickness of the party wall which is required for support of their respective structures. Thus such an apportionment based on use would be made, where the wall has

to be made good, underpinned, thickened or repaired, or where it has to be demolished and rebuilt, *because of defects or want of repair in the wall.* And an apportionment based on use and extent of thickness for the purpose of support would be made where a timber or other partition which is not in conformity with the London Building Act has to be replaced by a proper party wall.

The Estate of the late Sir Banister Fletcher

Sir Banister Flight Fletcher, D.Litt., M.Arch., P.P.R.I.B.A., F.S.A., F.R.I.C.S., of 4 Whitehall Court, S.W., and 3, Kings Bench Walk, Temple, E.C., who died on August 17 last, left £115,520 16s 8d gross, £109,031 7s 3d net value (duty paid £54,167). He left:

£2,000 to the Society for the Protection of Ancient Buildings, upon trust to apply the income in or toward the provision of a scholarship to be known as "The Sir Banister Fletcher Scholarship" in memory of his father, brother Herbert, and himself.

£2,000 to the Architects' Benevolent Society, in memory of his father, said brother and himself, the income to be applied for the general purposes of the society but limited to Fellows or Associates or former Fellows or Associates of the R.I.B.A., or their widows.

£1,500 to the Worshipful Company of Carpenters, in memory of his father "who was one time Master of the Company and was the first chairman of the Company's Building Crafts Training School," said brother Herbert, who was surveyor to the Company and the first director of the said school, and himself, former master of and surveyor to the Company and director of the said school, the income to be applied in or towards annual medals or prizes for the said school, or such purposes as the Court of the Company think conducive to the technical training of craftsmen.

£1,500 each to the Royal Institute of British Architects, University College, London, for the Bartlett School of Architecture, and the Polytechnic School of Architecture, for the provision of prizes, in memory of his father, said brother and himself.

£1,500 to the Authors' Club, "in recognition of the pleasure I have derived from membership of that club," the income to be applied in or towards an annual prize for the book on architecture or the arts, which the committee of the club think most deserving.

£1,000 to the London Society, the income to be applied in or towards the provision of an annual lecture, to be known as "The Sir Banister Fletcher Lecture," on architecture, town planning, gardens or open spaces affecting the amenities of London.

£100 to the Royal Institute of Architects in Ireland for its general purposes, and the Hood and Gown of Master of Architecture of the National University of Ireland "which was presented to me by that Institute when that degree was conferred upon me."

After other bequests to friends and members of his family, the ultimate residue is left as to one-half to the Royal Institute of British Architects and one-half to The University of London.



NEW GARAGE, STOCKWELL for the London Transport Executive

architects: ADIE, BUTTON & PARTNERS

in association with THOMAS BILBOW, F.R.I.B.A. Architect to the Executive
consulting engineer: A. E. BEER, A.C.G.I., M.I.Struct.E., M.Cons.E.

LONDON TRANSPORT'S new garage at Stockwell is one of the garages constructed as an essential part of the recently completed scheme to replace London's remaining trams by buses and has been in part use since April, 1952.

The main requirement was for covered parking space for two hundred buses, together with all necessary facilities for inspection, fuelling, maintenance and repair work, operating offices, staff rooms, canteen, etc.

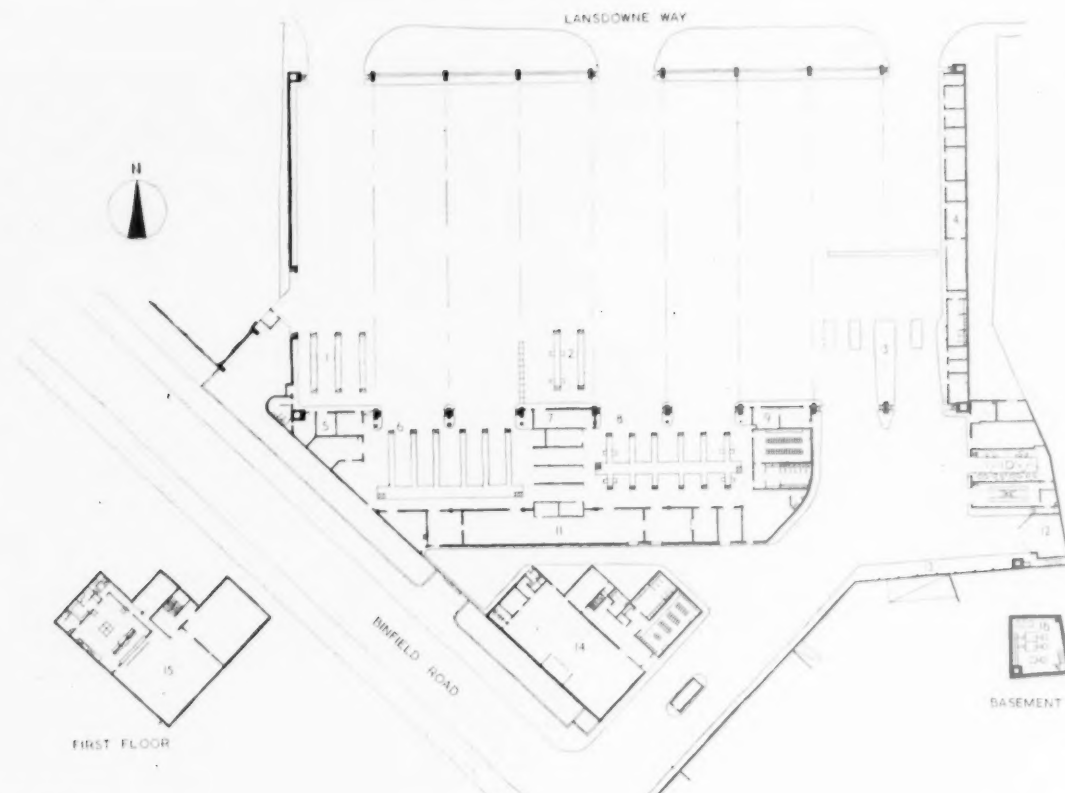
The choice of site was a good one for bus operation, as it is bounded by two wide roads—Binfield Road and Lansdowne Way—and only a short distance from an important intersection of main roads. It is an area once occupied by large houses but largely cleared by enemy action during the war.

The most important factor influencing the design was the need for the maximum unrestricted floor space to house the requisite large number of vehicles. This led to the adoption basically of one large garage construc-

ted in reinforced concrete arches to avoid the necessity for intermediate supports. Offices and staff rooms are in a separate block on the Binfield Road elevation.

In principle the layout follows the basic plan adopted by London Transport for post-war garages. At Stockwell, however, in order to obtain the maximum floor space in the irregularly shaped site available, the parking area was placed at the extreme north and the docking pits and repair shops along the East-West axis to the south, an arrangement which has kept the main repair pits clear of the parking area as well as enabling them to be enclosed by folding doors.

Buses enter the garage from Binfield Road, via a private access road which serves as a reservoir for vehicles and prevents traffic congestion in the public road. Refuelling and servicing are carried out at islands immediately inside the entrance and washing by machines placed just beyond the islands. Three vehicle exits are provided into Lansdowne Way.



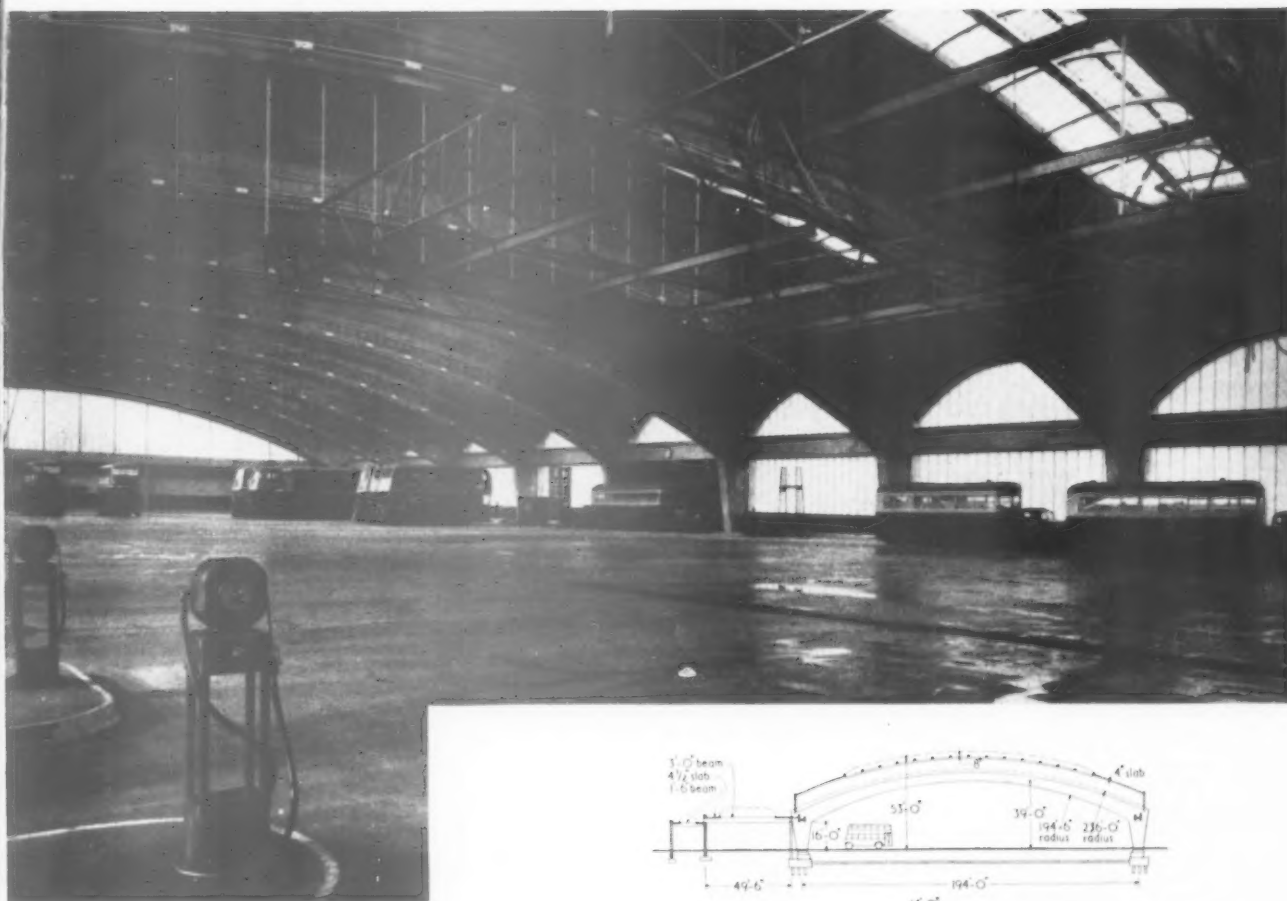
Key to plans

- | | |
|---------------------------------|----------------------------------|
| 1. RUNNING SHIFT AND ROTA PITS. | 9. ENGINEER AND MECHANICS. |
| 2. SERVICING PITS. | 10. FUEL OIL STORAGE. |
| 3. FUEL PUMP ISLANDS. | 11. STORES. |
| 4. STORES, VARIOUS. | 12. FUEL BUNKER. |
| 5. TECHNICIANS. | 13. CYCLE STORE. |
| 6. INNER DOCKING PITS. | 14. ADMINISTRATION. |
| 7. OIL STORE. | 15. STAFF RECREATION AND DINING. |
| 8. MAJOR DOCKING PITS. | 16. BOILER HOUSE. |

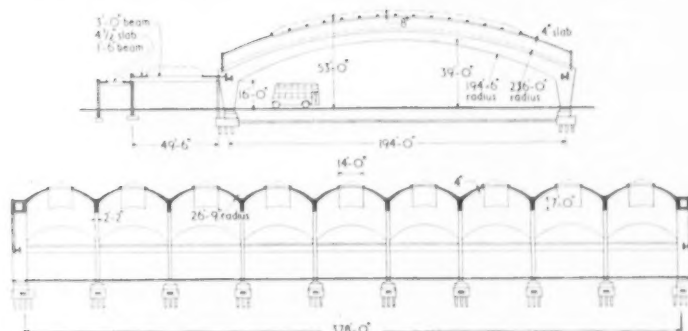


The main garage structure, 392ft long, consists of two-hinged reinforced concrete frames, at 42ft centres, of 194ft span. Connecting the arched frames and forming the main roof covering are nine reinforced concrete vaults, struck to a radius of 27ft, which cantilever from the arch ribs and permit of a natural lighting area of 140ft \times 14ft in each 42ft bay, and an uninterrupted floor space of 73,350 sq ft. Passing across the roof-lights, at 10ft centres, are 6in wide reinforced concrete ribs designed to take care of out-of-balance loading arising from snow or other loads and thus prevent torsion on the main arch ribs.

All the internal arched frames are 26in wide and 7ft deep at the crown, increasing to 10ft 6in at the haunch and decreasing again to 6ft at floor ground level. The two end frames consist essentially of a member of the same dimensions as the internal ribs plus an external member 18in wide connected to the 26in rib by 12in slabs at top and bottom, to form a reinforced concrete box 8ft wide. This section assures the necessary stability and is designed to withstand any out-of-balance thrust arising from live loading conditions. Below floor level, the rib sections are widened out to provide increased stability, as the only longitudinal tie between the frames is the "H" beam at haunch level. This is carried round the four sides of the garage and also conceals the 9in cast-iron rain disposal pipe, the 6in sprinkler main; compressed air and water ring mains and electric lighting and clock conduits. From it, also, are hung the main entrance doors and those to the docking area. Expansion joints are provided in the "H" beam on each side of the garage.



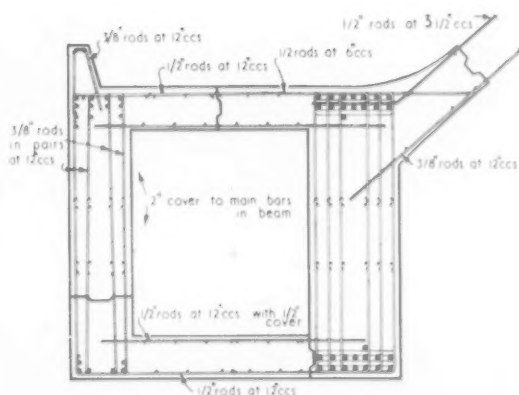
Above, and on the facing page, are two interior views of the bus garage. Right: Cross and longitudinal sections. Scale: One inch equals ninety-six feet. Below: A detail of the box-beam which occurs at each end of the structure. The joggles show the extent of one day's pour of concrete. Scale: One inch equals four feet.



Where the main frames sit on the pile caps, special hinges are provided, and the thrust arising from arch action is taken by steel ties (of 1½ in diam bars coated in bitumen and encased in concrete) connecting opposite pile caps.

The comparatively small section of the main frames made it essential to weld the main reinforcement instead of providing the customary laps and some 1,200 "V" butt welds were made in the arch ribs and ties connecting the pile caps. The single "V" type weld was adopted owing to the necessity for welding in position the several layers of main bars at the most critical section nearest the haunches. To minimize the weakness of a possible faulty weld, welding points for each layer were staggered and the positions arranged as far as practicable away from sections of maximum bending moment.

Concreting of individual sections was carried out in accordance with a pre-arranged schedule and throughout the main structure concrete was delivered by pump and vibrated with immersion vibrators. Construction joints were defined at the start of the work and, in the case of the vertical legs of the frames, no construction joints were allowed between hinge and haunch levels. Concrete mix for the main frames and connecting vaults was specified at



STOCKWELL GARAGE

1:1½:3 nominal and elsewhere 1:2:4 nominal and design stresses throughout were in accordance with L.C.C. by-laws.

Lighting was designed by Messrs. J. H. Coombs & Partners and the lighting fittings in collaboration with Metrovick illuminating engineers.

The floors in the garage and docking areas are of granolithic finish. Around the parking area is a 5ft 6in high rendered dado painted with an oil and water resisting rubber-based paint, while the docking area has a dado of blue faience tiles. Lavatories have quarry tiled floors and a dado of glazed wall tiles. Above the dado the walls have been constructed in sand-lime bricks.

The heating and ventilation schemes for the garage were designed under the supervision of Mr. H. Carter, A.M.I.C.E., M.I.Struct.E., London Transport's Works Engineer.

GENERAL CONTRACTORS: Wilson Lovatt & Sons, Ltd.

Asphalt: General Asphalt Co., Ltd. *Boilers:* Prior Stokers, Ltd. *Bricks:* Hall & Co., Ltd. *Central Heating:* G. N. Haden & Co., Ltd. *Cycle Stands:* Abix (Metal Industries), Ltd. *Demolition:* London Demolition Co., Ltd. *Electric Wiring:* T. Clark & Co., Ltd. *Electric Light Fixtures:* Metropolitan-Vickers Electrical Co., Ltd. *Faience:* Wiggins-Sankey. *Foundations:* Cementation Co., Ltd. *Frames to Attendant's Office:* W. James & Co., Ltd. *Fuel Tanks:* J. Bellamy, Ltd.; Tecalemit, Ltd. *Glazed Partitions, Windows and Window Furniture:* Mellows & Co., Ltd. *Granolithic and Plaster:* Plastering, Ltd. *Hoists:* A.C.E. Machinery, Ltd. *Joinery:* D. Burkle & Son, Ltd. *Linoleum:* Cellulin Flooring Co., Ltd. *Metalwork:* Light Steelwork (1925), Ltd.; George Wright (London), Ltd. *Patent Glazing:* Williams & Williams, Ltd. *Plastic Tiles:* Sontex, Ltd. *Plumbing:* Z. D. Berry & Co., Ltd. *Rolling Shutters:* G. Brady, Ltd.; Mather & Platt, Ltd. *Roofing Felt:* Super Phalt, Ltd. *Sanitary Fittings & Door Furniture:* W. N. Froy & Sons, Ltd. *Signs:* Pearce Signs, Ltd. *Sliding Doors:* E. Hill Aldam & Co., Ltd. *Sprinklers:* Mather & Platt, Ltd. *Stonework:* South Western Stone Co., Ltd. *Structural Steel:* Concrete & Structural Products, Ltd. *Tiles:* Jaconello, Ltd. *Woodblock Flooring:* Improved Wood Pavement Co., Ltd.

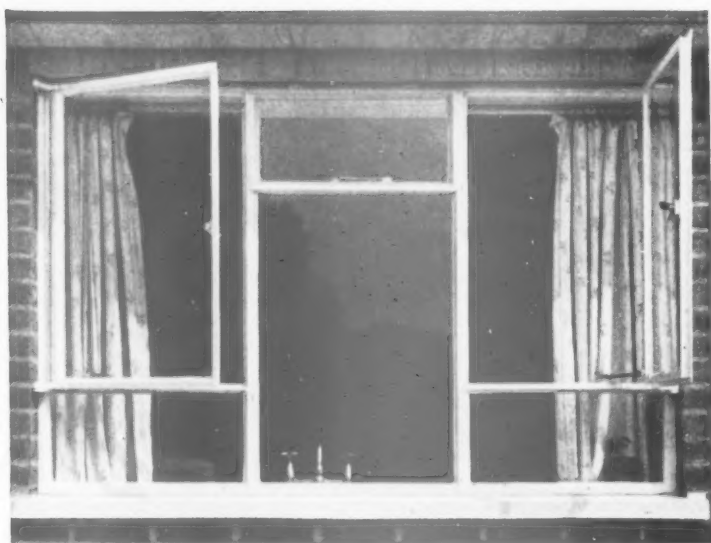


The Conductors' paying-in counter in the traffic office.

One of the exits on Lansdowne Way.



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The "Hopley" House—County Borough of Northampton. Photograph by permission of "The Builder".
By courtesy of J. L. Womersley, Esq., A.R.I.B.A., A.M.T.P.I., and G. Hopkinson, Esq., B.Arch., A.R.I.B.A., A.M.T.P.I.,
late Borough Architect and Deputy for Northampton. Contractors: T. Wilson & Sons Ltd., Northampton.

3

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Hints for Household

I HAVE just received the latest M.O.W. Advisory Leaflet, No. 34—House Insulation. It strikes me as being in a very different vein from the previous leaflets as it seems directed so much more to householders instead of, as previously, to builders.

The leaflet discusses three subjects: first, structural insulation which occupies a considerable part of the document; secondly, how to stop draughts which, from the advice given, seem to be due to bad building and thirdly, a few hints in lagging.

Examining the second group first, there seems to be given some very strange advice on the subject of stopping draughts as it mentions only palliatives for existing buildings and nothing about the initial elimination in new buildings. Merely to say "tack felt or rubber strip around the frames" of external doors is surely only a very make-shift treatment which most of us know from experience is seldom satisfactory for long. The more permanent and satisfactory method of weather-stripping with phosphor-bronze seems to be damned with faint praise by reference to its high cost; I doubt that proper weather-stripping is so costly, as not only is it so much more effective but it is so much more permanent than the methods advocated.

The advice for external doors continues by suggesting that "a timber fillet nailed to the floor is usually effective in closing the gap at the bottom of a door." Would it not be much better to advise architects and builders to use proper sills to external door frames since these achieve the desired end and are also more effective and less dangerous. To fit a fillet to a brick, tile or concrete floor is no easy matter if it is to be wind-tight and will withstand kicking and other mechanical damage.

The advice on the treatment of windows seems almost childish. To suggest, even as a temporary measure, that one should close metal windows on to thin strips of cloth or felt is not only very difficult advice to carry out but is almost certain to strain the sashes and spoil them permanently. Surely the only really useful answer is to replace the windows with better ones fitted with weather-stripping. To suggest the gaps between frames and walls "may be sealed from inside" with various materials seems to be absurd: if there are gaps at these positions which cause draughts surely they need to be treated on the outside where the weather will be penetrating and causing damage to the structure, also if plaster butts up to the frames as is usual mastic would be unsightly.

It would have been useful if it had been explained that the quarter-round "quadrant" strip to close the joint between the skirting and the floor needs to be so shaped that it is greater than quarter-round in order to press hard against the skirting. I note that no treatment is suggested for skirtings

which do not fit close to the plaster because they had been plugged to wet plaster; this is a very frequent cause of draughts.

Draughty gaps in floor boards usually arise from one cause only, namely the use of square or plain edged flooring. Would it not have been wise to say so in order to discourage this practice which, fortunately, seems confined, in the main, to London and the Southern counties. However, if a badly shrunk floor, as opposed to an odd crack between two boards, is to be treated in the ways suggested I believe it could only be carried out at a reasonable cost by a householder since to employ building labour to apply plastic wood or home-made papier mâché, except in very small quantities, would probably be more costly than replacing the floor and without being as effective. If many cracks are wider than $\frac{1}{4}$ in, and I have seen whole floors with such cracks which were constructed between the wars, one could not contemplate the cost of inserting slithers of wood as suggested; the only economic treatment is, in my opinion, to provide a new floor or at least a new surface with another material such as to lay lino over a very thick felt.

The advice on the need for lagging of hot and cold pipes is sound and cannot be impressed too often on those who build and on those who occupy houses. The stressing of the need for treatment of cold water services and storage placed in roof spaces even when ceiling level insulation is provided is very sound advice which is often overlooked. I have seen several examples of ceiling insulation cutting off almost all heat from pipes and tanks installed quite close to roofing tiles laid only on battens without even a layer of felt.

The advice on structural insulation given in this leaflet does not, in my opinion, stress nearly strongly enough the need for cavity external walls having inner skins of insulating material. The matter is mentioned but not adequately stressed, as by this type of initial treatment the cost of better insulation is very small whereas internal lining of walls is very much more costly. The leaflet points out that lining is so costly that it can only be justified in the "living room." Personally I believe it is justified in all living rooms of dwellings in which the designer has omitted cavity walls, especially is it desirable in second or less frequently used living rooms as the linings assist the quicker warming of rooms as well as aiding the heat losses.

The authors of the leaflet seem themselves doubtful of their own advice in some instances. For example in dealing with the suspended floors of existing houses it is suggested that "good insulation can be effected by laying insulating fibre board and covering it with plywood or linoleum" but it continues by saying "before this is attempted the possibility of dry-rot

should be considered"; if this leaflet is to be useful official advice it should be quite definite on these matters since those who know the answers to the authors' doubts will probably also know more about insulation than appears in the pamphlet. It is those who do not know the answers who are likely to make use of these leaflets.

The information throughout is very general and does not help users nearly so well as many of the earlier leaflets which, on the whole, have given excellent practical advice. Detailed direction on the fixing of blankets and quilts, the thicknesses which should be used and their relative merits would have been more useful than notes of doubtful value apparently directed to the householder so that they may make good the deficiencies of the original architects and builders. Helpful advice to users of aluminium foil insulation might have been included as I have met several instances of the smaller builders not knowing how best to install it efficiently.

The really important matter which a leaflet of this nature should have stressed is the desirability of taking proper steps when building to provide insulation and to take steps to eliminate the causes of draughts. It has to be stressed as the desire to reduce first costs is having the effect of causing the omission of all work which is not absolutely essential to put a roof over the would-be occupiers' heads. The types of draught troubles which this leaflet sets out to cure are almost always due to price cutting and skimmed workmanship while the putting right of these initial failures is very costly and often not very effective. Adequate insulation precautions, draught reduction and lagging are matters about which the house purchaser or tenant know little when they look over a house. Surveyors and agents advising purchasers should draw attention to the adequacy or otherwise of precautions and the National House Builders Registration Council should include definite requirements in its Model Specification and its inspection scheme should take note of them.

DUTCH UNCLE

The Building Plant Exhibition to be at Reading Next Year

The 1954 Building Plant Exhibition, organized by the Ministry of Works, will be held at Reading from Thursday, June 24, to Wednesday, June 30, inclusive. The site for the Exhibition is Hills Meadow, immediately below Reading Bridge, bordered on one side by the River Thames, on the other by the Reading-Caversham Road. The total space available for exhibits, demonstrations and car park is approximately 300,000 sq ft.

MOSAICS

FITTINGS

ELECTRIC COOKERS

C1/12



The Revo "Monarch" Cooker, recently introduced by the Revo Electric Co. Ltd., Tipton, Staffs, marks a very welcome change in cooker design, the placing of the controls above the splash-back has a three-fold significance. First, the switches are out of the children's way; second, the controls are at eye level and therefore easier to see and operate, third, all fuses, main terminals, switches and 3-pin socket are in an easily accessible position which does not steal space from the oven which is, for the size of the cooker, exceptionally large.

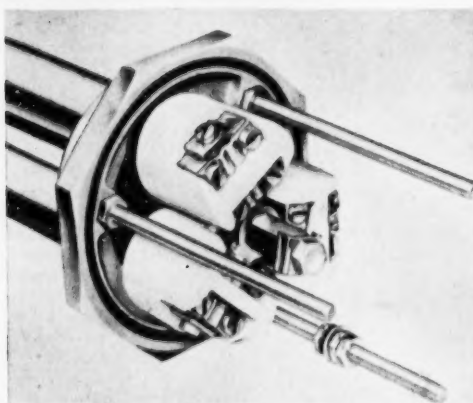
SERVICES

SPACE HEATING

B3/44



The "Kaloric-Mayfair" electric cabinet convector. Produced by M. & J. Lossos & Co. Ltd., 31 Beethoven Street, W.10 in four loadings, from 750 to 3,000 watts, costing from £6/6/- to £13/11/4 with two finishes, sprayed bronze cellulose or cream enamel. Patent heating elements operate at black heat, there is a pilot light and thermostatic control is available as an extra.



SERVICES

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B6/13

A 9 KW. immersion heater developed by the General Electric Co. Ltd., Magnet House, Kingsway, W.C.2, as a means of converting to electric heating existing systems powered by solid fuel or gas. The three elements are connected in "Star" and are suitable for operation from 3-phase A.C., single-phase A.C. or 2-wire D.C.



PLANT TRACTORS E7/9

A four-wheel roller-tractor Dumper which has recently been introduced by H. R. Nash Ltd., of Ashted, Surrey. Fitted with a roller-axle at the rear which acts as a heavy fly-wheel, the dumper is claimed to have a greater drawbar pull than other vehicles of comparable size. Skip capacity is over 10 cu. ft. maximum load $\frac{1}{2}$ ton.

INDUSTRIAL NOTES

● W. N. Froy & Sons, Ltd., have opened at their King Street, Hammersmith, showrooms a display of new fireplaces and surrounds, each shown in a contemporary setting of furniture designed and supplied by Heal & Son, of 196, Tottenham Court Road, W.1. There are seven different rooms laid out by Mrs. Rowland Jones, of Heal's, each with its individual tiled fireplace and timber mantel costing together from thirty to forty-five pounds.

● Thermadore (Great Britain) have moved to new offices: 79-80, Petty France, London, S.W.1. Telephone Nos. Abbey 1060 and Abbey 3348.

● The Iron and Steel Board, after consultation with the Industry, have published and circulated to iron and steel producers concerned, a Notice requiring them to submit for the Board's consent under Section 6 of the Iron and Steel Act, 1953, any proposals for modernization or development estimated to cost more than £100,000 and which fall within the scope of the Board's powers under that Section. The Board will from time to time be reviewing this criterion in the light of experience.

● For the first time in its history the British Industries Fair will feature a special selective display of well-designed British goods in 1954.

The Council of Industrial Design has been invited to join with the Board of Trade in staging this display as the central feature of the Earls Court section. All the exhibits will be chosen from *Design Review*, the illustrated record of current British products of a high standard of design.

This display is planned to include furniture and furnishings, tableware, hardware, travel goods, domestic appliances and building fittings such as door furniture, fireplaces, bathroom fittings, etc. In order to ensure that good current designs are not overlooked, manufacturers are urged to submit as soon as possible photographs (or flat samples) of their recent work which is not already included in *Design Review*. Further enquiries should be addressed to: Major-General J. M. Benoy, C.B.E., Acting Chief Industrial Officer, The Council of Industrial Design, Tilbury House, Petty France, London, S.W.1.

● Mr. J. Holmes has been appointed Sales Manager of Thos. Storey (Engineers), Ltd., of Stockport, manufacturers and World licensees for Bailey Bridging and equipment. Mr. Holmes was formerly Export Manager of Thos. W. Ward, Ltd., of Sheffield.

● Northern Aluminium Company, Ltd., announce the following changes in their Sales Department: Mr. F. Layton is to take charge of the Sales Administration Department at Banbury, being succeeded as Manager of the Leeds area Sales Office by Mr. H. H. Louch. Mr. Louch's previous position as Sales Development Manager is to be held by Mr. E. D. Iliff, at present Publicity Manager, and the Publicity Division will be in the charge of Mr. R. F. Tayler. These new appointments became operative from November 1, 1953.

● Stramit Boards, Limited, announce the appointment of Messrs. Alexander Ross and Company, of 44, York Street, Glasgow, C.2, as agents for their products in Scotland.

● Solignum, Limited, announce that Mr. G. W. Robertson, who has been Sales Manager for many years, has now been appointed a Director of the Company.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

CONTRACT • NEWS •

OPEN

BUILDING

BATH C.C. (a) 6 maisonettes and 6 flats in 1 block, St. John's Road, Bathwick. (b) City Planning Officer, 7, North Parade Buildings. (c) 2gns. (e) Dec. 2.

BRIDGE-BLEAN R.C. (a) 8 houses, Adisham Housing site, near Canterbury. (b) Clerk, Council Offices, Old Dover Road, Canterbury. (c) 2gns. (e) Nov. 23.

CHICHESTER C.C. (a) Phase 1 of Council Works Depot, comprising garages and workshop. (b) Town Clerk, "Greyfriars," North Street. (c) 2gns. (e) Nov. 28.

GOWER R.C. (a) Water treatment plant and pumping station building, with ancillary works, at Parkmill. (b) Henry Davies, A.M.I.C.E., 7, Uplands Crescent, Swansea. (c) 5gns. (e) Dec. 1.

HALIFAX B.C. (a) Block of shops and flats, Stanningley Road. (b) Borough Engineer, Crossley Street. (c) £2. (e) Nov. 16.

LEE CONSERVANCY CATCHMENT BOARD. (a) Offices and garages, etc., at "The Grange," Crossbrook Street, Cheshunt, Herts. (b) Engineer to the Board, "The Grange," Crossbrook Street, Cheshunt. (c) £3. (e) Nov. 25.

LONDON—WEST HAM B.C. (a) 34 houses, 30 maisonettes and 33 flats, Whitwell Road, E.13. (b) Borough Architect, 70, West Ham Lane, E.15. (c) 2gns. (e) Nov. 16.

LOWESTOFT B.C. (a) 18 flats at Raglan Street and Jacobs Street. (b) Borough Engineer, 49, High Street. (c) 2gns. (e) Dec. 4.

MAIDENHEAD B.C. (a) 6 shops with 3-bedroom maisonettes over, with garages, etc., Larchfield Estate. (b) Borough Engineer, 14, Craufurd Rise. (c) 2gns. (e) Dec. 2.

NEW WINDSOR B.C. (a) 36 flats in 2 3-storey blocks at Vale House, Dedworth Road, Windsor. (b) Borough Engineer, Kipling Memorial Building, Windsor. (c) 2gns. (e) Dec. 18.

PLYMOUTH C.C. (a) 41 dwellings at Chaucer Way. (b) City Architect, Seymour Road. (c) 3gns. (d) Nov. 14.

ROCHDALE B.C. (a) Secondary school at Spotland. (b) Town Clerk, Town Hall. (e) Dec. 3.

address it is the same as the locality given in the heading. (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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ROTHWELL U.C. (a) 16 garages in 4 blocks of 4, Haigh Road site. (b) Messrs. R. A. Easdale & Son, County Chambers, Bradley Street, Castleford, Yorks. (c) 2gns. (e) Nov. 23.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

OXFORD. (1) Territorial Army centre. (2) Slade Park. (3) G. J. Lovell and Son, Ltd., Gerrards Cross, Bucks. (4) £112,129.

LEATHERHEAD. (1) Research laboratory for British Electrical and Allied Industries Research Association. (3) Gee, Walker and Slater, Ltd., 100, Park Lane, London, W.1. (4) £400,000 approx.

WALTHAMSTOW B.C. (1) 60 flats, etc. (2) The Drive. (3) Direct labour. (4) £119,924.

ENFIELD U.D.C. (1) 72 flats. (2) Manor Farm. (3) Townsend and Collins, Ltd., Enfield. (4) £107,063.

BELFAST. (1) Six-storey building. (2) Donegall Place, for C. and A. Modes, Ltd., London, W.1. (3) McLaughlin and Harvey, Ltd., 34, York Road, Belfast. (4) £250,000.

WELWYN GARDEN CITY. (1) Office block for I.C.I. (Plastics Division). (3) Welwyn Builders, Ltd., 42, Bridge Road, Welwyn Garden City. (4) £120,000.

PLYMOUTH CORPORATION. (1) 48 flats. (2) Motte Street. (3) Wakeham Bros., Ltd., Kneighton Road, Plymouth. (4) £72,549.

BARKING B.C. (1) 53 dwellings. (2) Thames View. (3) Direct labour.

ROSSENDALE (LANCS). (1) First instalment of college of further education. (3) John Tairline, Ltd., Parker Street Sawmills, Bury. (4) £44,928.

BRIGHTON. (1) Factory, for Elizabeth English Shoes, Ltd. (2) Lower Beven-dean Industrial Estate. (3) McKellar and Westerman, Ltd., 143, Church Road, Hove, Sussex. (4) £24,554.

SOUTHALL B.C. (1) 96 houses, 94 flats, etc. (2) Willow Tree Estate. (3) Gregory Housing, Ltd., 27, Chapel Road, Worthing. Negotiated tender.

CHESTERTON R.D.C. (1) 98 houses. (2) Gt. Shelford. (3) J. Brignell and Co., Ltd., 42, Newmarket Road, Cambridge. (4) £126,973.

DUKINFIELD B.C. (1) 96 houses. (2) Yew Tree Lane. (3) Kenyon Construction Co., Ltd., 9, Lime Bank Street, Manchester, 12. (4) £126,350.

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BIRMINGHAM E.C. (1) Girls' school. (2) Billesley. (3) Smith Bros. (Construction), Ltd., 261, Stratford Road, Birmingham. (4) £100,563.

NEWCASTLE-ON-TYNE E.C. (1) Primary school. (2) Stocksfield Avenue. (3) George Bainbridge, 205, Westgate Road, Newcastle-on-Tyne. (4) £129,657.

BRITISH RAILWAYS (LONDON MIDLAND REGION). (1) Reconstruction of Gospel Oak Station, London. (3) Griggs & Son, Ltd., 56, Victoria Street, London, S.W.1.

BRITISH RAILWAYS (LONDON MIDLAND REGION). (1) Repairs to the engine shed roof, smoke troughs and stacks. (2) Walton-on-the-Hill motive power depot. (3) Thomas Collier & Sons, Ltd., Brown Street Works, Leigh, Lancs.

BRITISH RAILWAYS (LONDON MIDLAND REGION). (1) General maintenance contract for a period of two years. (2) Euston House, Eversholt Street; Trainmen's Hostel, Polygon Road; Carlow Street Offices; Train Arrival Bureau, Euston Station. (3) Wm. Timmas & Son, 2, Barnby Street, London, N.W.1.

BRITISH RAILWAYS (LONDON MIDLAND REGION). (1) Lengthening of Bridge No. 51 carrying Wednesbury Road over the railway between Walsall and Pleck for the West Midlands Gas Board. (3) Leonard Fairclough, Ltd., Adlington, Lancs.

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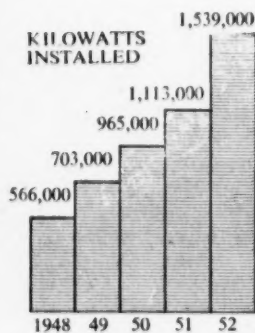
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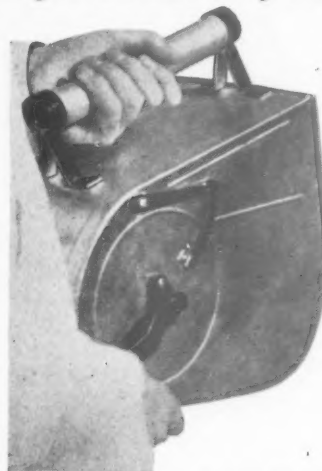
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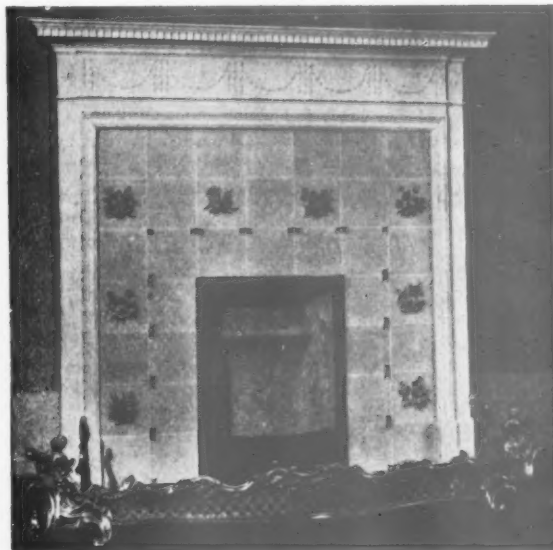
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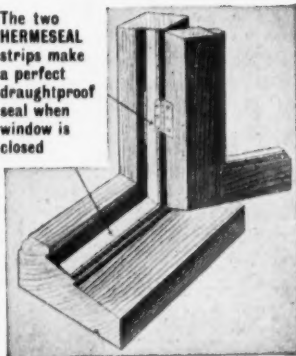
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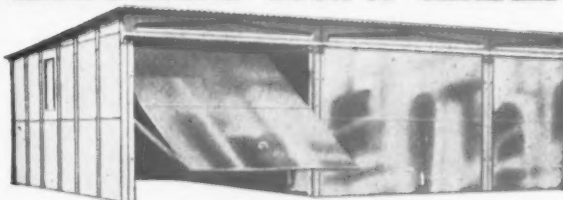
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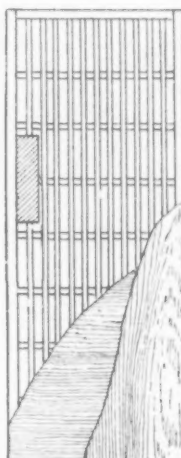
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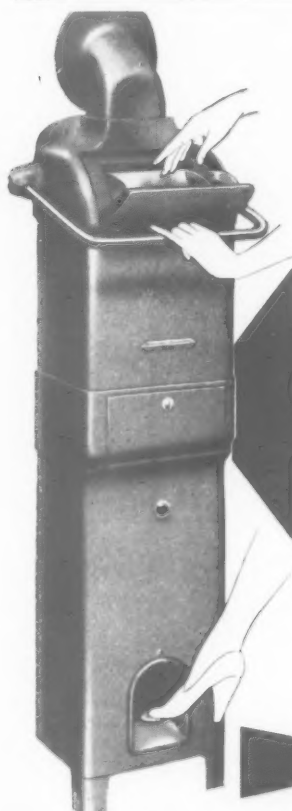
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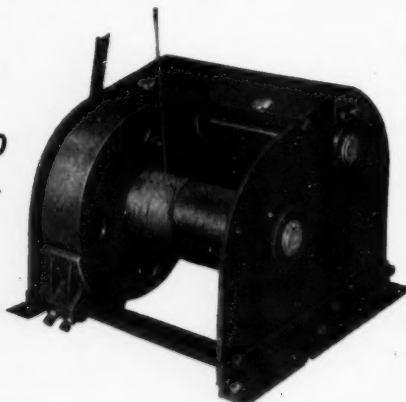
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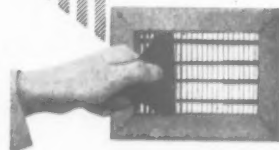
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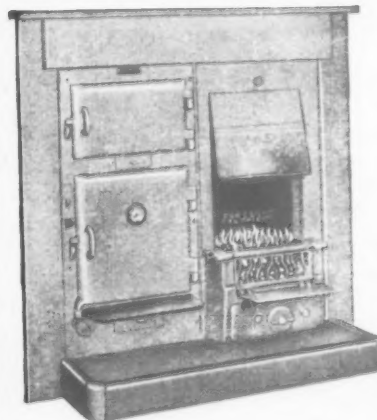
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APPOINTMENTS

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order 1952.

BINGLEY URBAN DISTRICT COUNCIL.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the permanent appointment of CHIEF ARCHITECTURAL ASSISTANT. Salary Grade V, commencing at £595 per annum, rising by three annual increments to £645 per annum.

Candidates should have had considerable training and experience in housing design, development and general architectural work. Preference will be given to candidates who have passed the examinations of the Royal Institute of British Architects.

The appointment will be terminable by one month's notice on either side and subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, training and experience, and details of past and present appointments, accompanied by copies of three recent testimonials, should be forwarded, endorsed "Architectural Assistant" to the undersigned before the 23rd November, 1953.

The Council is unable to provide housing accommodation.

F. M. DUNWELL,
Clerk of the Council.

Town Hall,
Bingley.

[7415]

LONDON COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT SCHOOLS ARCHITECT.

THE ASSISTANT SCHOOLS ARCHITECT, salary £1,650 x £1,950, will assist the School's Architect, who is responsible to the Architect to the Council for the organization and direction of the Schools Division dealing with the design and erection of educational buildings of all types. The position calls for experience in contemporary architectural design and modern methods of construction, and for qualities of leadership and organizing ability of a high order. Form of application from the Architect (AR/EK/ASA), County Hall, London, S.E.1. Closing date 30th November, (1194)

[7422]

EAST KILBRIDE DEVELOPMENT CORPORATION.

APPLICATIONS are invited for the appointment of ASSISTANT CHIEF ARCHITECT (PLANNING) in the architectural and planning department of the Corporation.

The main duties of the post are (1) to produce broad outline plans of all developments; (2) to supervise the preparation of detailed layout work for both residential and central areas; and (3) to supervise the collection and analysis of statistical information. The qualifications required are those of an architect planner, and recent experience in both architecture and planning is desirable.

The salary scale is £1,100 by £50 to £1,350 per annum, with placing according to experience, etc. The appointment is subject to the Corporation's Conditions of Service and Superannuation Agreement. The selected candidate will be required to pass a medical examination. A house will be made available if required. Application forms may be obtained from the General Manager, Torrance House, East Kilbride, to whom they should be returned not later than 21st November, 1953.

Canvassing, directly or indirectly, of the members of the Corporation will constitute an absolute disqualification.

[7419]

BOROUGH OF SAFFRON WALDEN

QUANTITY SURVEYOR required in connection with new housing schemes. Salary within A.P.T. Grades Va to VI (£625 to £735) according to age and experience. N.J.C. conditions of service and superannuation will apply. Applications, with full particulars and copies of two recent testimonials, should reach the undersigned on or before 24th November, 1953.

(signed) H. C. STACEY,
Town Clerk.

[7442]

ANNOUNCEMENTS • CONTRACTS • TENDERS

Close for press 1st post Monday for following Thursday Issue

APPOINTMENTS—contd.

HER MAJESTY'S COLONIAL SERVICE.

CHIEF ARCHITECT, ARCHITECTURAL DEPARTMENT (DEVELOPMENT AND WELFARE) MAURITIUS (CDE 112/52/01).

TO be in charge of the Architectural branch of the Development and Welfare Organisation and responsible for all architectural work undertaken by the Government.

Appointment is on contract for 3 years at a fixed salary of £1,485 per annum. Gratuity at the rate of £37 10s for each 3 months' service payable on satisfactory completion of contract. Cost of living allowance of 9 per cent of basic salary at present payable. Leave at the rate of 4 days for each completed month of resident service. Free passages for officer, wife and up to 3 children.

Candidates must be A.R.I.B.A. preferably with experience in Town Planning and in the Architectural department of a public authority.

For application forms and further particulars write to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting reference (CDE 112/52/01). Closing date for receipt of initial enquiries 4th Dec., 1953.

[7420]

EXMOUTH URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the appointment of ARCHITECTURAL ASSISTANT (Capital Works) in the Department of the Engineer and Surveyor at a salary in accordance with Grade V of the A.P.T. Division of the National Scales (£595-£645).

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Scheme of Conditions of Service, and to the satisfactory passing of a medical examination, and to one month's notice on either side.

The Council will provide housing accommodation if required.

Applications giving details of age, qualifications and experience, accompanied by copies of three testimonials, must be received by the undersigned not later than Saturday, 21st November.

R. S. RAINFORD,
Clerk and Solicitor,
Council Offices,
Exmouth.

[7421]

MINISTRY OF WORKS.

VACANCIES exist in London in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Employment will be on a wide variety of Public Buildings including Atomic Energy and other Research Establishments, Telephone Exchanges and Housing.

Salary: Up to £628 per annum. Starting pay according to age, qualifications and experience.

Although not established posts, many have long-term possibilities and competitions are held periodically to fill established vacancies. Reasonable prospects of promotion to Leading and Senior Architectural Assistant.

State age, nationality, full details of training and experience to Chief Architect, W.G.10/C.A.3(H), Ministry of Works, Abell House, John Islip Street, London, S.W.1.

[7371]

CITY OF BIRMINGHAM EDUCATION COMMITTEE

APPOINTMENT OF STAFF TO ARCHITECT'S BRANCH

Applications are invited for the following appointments in the Architect's Branch of the Birmingham Education Department (Architect to the Committee: Mr. J. R. Sheridan-Shedden, A.R.I.B.A.):—

ASSISTANT CLERKS OF WORKS (Temporary)

Salary: Miscellaneous Grade IV. (£440-£495).

Applicants should have had a thorough technical training and experience in building construction materials.

Application forms, which may be obtained (s.a.e.) from the undersigned, must be returned not later than 23rd November.

E. L. Russell, Chief Education Officer,
Education Office,
Margaret Street,
Birmingham, 3.

[7423]

APPOINTMENTS—contd.

NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY

APPLICATIONS are invited for the post of LECTURER IN BUILDING. Duties will consist of instruction in Theory of Structures, Building Research and Building Construction to students of Architecture and in Building to Civil Engineering students.

The College is to be developed along the general lines of a U.K. Technical College for work of post-School Certificate standard and has branches at Zaria, Ibadan and Enugu.

Applicants should preferably have had previous Technical College experience and must possess either a professional qualification in Architecture, Structural and Civil Engineering, or Quantity Surveying or a Technical College Diploma in Building.

Post is pensionable but appointment on contract or secondment possible in certain circumstances. Salary scale £750-£1,560 p.a., including overseas allowance. Point of entry into scale determined by experience. House provided at rent £57-£129 p.a., depending on basic salary. Free first class passages once each way for each tour of service for person appointed and wife; either a passage allowance or a maintenance allowance for up to two children under 18. Income tax rates much lower than in U.K. Leave on full salary at rate of 7 days for each completed month of resident service. Tours of service likely to be 10-18 months.

Write for further information to the Secretary, Advisory Committee on Colonial Colleges, 1, Gordon Square, London, W.C.1. Closing date for applications (6 copies) 30th November, 1953.

[7430]

COUNTY BOROUGH OF WEST HAM

BOROUGH ARCHITECT & PLANNING OFFICERS' DEPARTMENT

Applications are invited for:
(a) ARCHITECTURAL ASSISTANT. Salary according to experience within the range £465-570 plus London Weighting.

(b) GENERAL ASSISTANTS TECHNICAL.

(3). With two years' experience in an architect's office. Salary according to age within the range £160-450 plus London Weighting.

Application forms returnable by Monday, 30th November, 1953, from Thomas E. North, O.B.E., F.R.I.B.A., Dist. T.F., 70, West Ham Lane, Stratford, E.15.

[7437]

BOROUGH OF OLDBURY

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

APPLICATIONS are invited for the following appointments in the Architects' Section of the Borough Surveyor's Department:—

(a) SENIOR QUANTITY SURVEYOR, Grade A.P.T. VII (£710/£25/£785).

(b) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. V (£595/£15/£20/£645).

Salary will be paid within the above Grades in accordance with the experience and qualifications of the successful candidates.

The Corporation's building programme comprises mixed development of houses, maisonettes and flats, shopping centres, development of Central Clearance Areas, multi-storey flats and general building works.

Candidates for appointment (a) should be Chartered Quantity Surveyors, possess a thorough knowledge of building contract procedure and have administrative ability; be experienced in preparation of estimates, preparing specifications and bills of quantities; valuation for interim certificates and settling final accounts for all types of local authority building contracts.

Appointment (b) should preferably be qualified Quantity Surveyors and have had considerable practical experience in the preparation of bills of quantities.

The appointment will be superannuable and subject (a) to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services and (b) to the selected candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than Monday, 30th November, 1953.

KENNETH PEARCE,
Town Clerk,
Municipal Buildings,
OLDBURY,
6th November, 1953.

[7440]

APPOINTMENTS—contd.

GOLD COAST, TEMA DEVELOPMENT CORPORATION.

VACANCIES exist in the Senior Staff of the Corporation, which has been established by Ordinance for the purpose of planning and developing the New Town of Tema.

- (1) Appointments will normally be on contract for two years of 18 to 24 months each in the first instance, or for five years in the case of indigenous staff.
- (2) Overseas officers will be entitled to seven days leave (exclusive of travelling time) on full pay for each completed month of residential service; African Senior Officers will receive five days leave on full pay for each completed month of service.
- (3) Free return passages by sea (first-class) or air will be provided for overseas officers each tour, and passages for a wife and up to three children under the age of 13 years will also be provided. Free rail travel to and from the port of embarkation when travelling to or from the Gold Coast is also allowed.
- (4) It is intended to establish a Provident Fund, to which each officer may expect to have to contribute 10 per cent of his salary, the Corporation contributing at least an equal amount. Pending the establishment of the Fund, gratuities will be paid as follows for each completed three months of satisfactory service:
 - Officers on salaries of £700-£999: £25.
 - Officers on salaries of £1,000 and above: £37 10s.

- (5) Quarters (partially furnished) are provided for overseas officers in Accra, at the following rentals:
 - Salaries up to £1,350—£60 per annum.
 - Salaries £1,351 to £1,850—£75 per annum.
 - Salaries £1,851 to £2,400—£90 per annum.
 - Salaries £2,401 to £2,650—£120 per annum.
 - Over £2,650—£150 per annum.

When the Corporation moves to Tema, officers will be expected to make their own arrangements.

- (6) Free medical attention will be given to officers and their families.
- (7) Officers required to use motor cars in the course of duty will be paid a monthly maintenance allowance and mileage.
- (8) Income Tax in the old Coast is at rates considerably lower than those in the United Kingdom.

Applications are invited from suitably qualified candidates for the following vacancies:—

CHIEF ARCHITECT AND TOWN PLANNER. (Salary—£2,500 p.a.) Candidates must be A.R.I.B.A. and A.M.T.P.I., or have equivalent qualifications and must have had considerable municipal or New Town experience.

Vacancies also exist in the following grades, viz.:—

ASSISTANT ARCHITECTS. (Salary—£700 × £10—£910.) Must be students of the R.I.B.A.

ARCHITECTS. (Salary £1,000 × £40—£1,200) must be A.R.I.B.A., or hold a degree or diploma which is accepted as equivalent to having passed Sections A and B of the Institute's examination, and have reached the age of 28 years. Membership of the Town Planning Institute would be an advantage. Opportunities will exist for promotion to the grade of SENIOR ARCHITECT (Salary £1,300 × £50—£1,500). In these grades Overseas Pay (£175-£350) is payable.

CHIEF ESTATES OFFICER. (Salary £2,300 p.a.) Candidates should be members of the Royal Institution of Chartered Surveyors or hold the degree of B.Sc. (Estate Management) and should have considerable experience in the management of large housing and industrial estates. Experience in the Estates Office of a Municipality or in New Towns would be an advantage.

Applications: Persons resident in the United Kingdom and Europe should apply to the Commissioner for the Gold Coast, Melbourne House, Aldwych, London, W.C.2, for a form of application, while other applicants should send full details of age qualifications and experience and arrange, if possible, for a testimonial from present and/or recent employers to be sent to the Commissioner. [7436]

CITY OF COVENTRY require a **CHIEF PLANNING ASSISTANT** in Development Control Section. A.P.T. IX (£815-£935), A.R.I.B.A. and A.M.T.P.I. essential. Housing accommodation may be provided. Application forms, etc., from City Architect, Bull Yard, Coventry, to be returned by 5th December. [7441]

APPOINTMENTS—contd.

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT

TEMPORARY TECHNICAL ASSISTANT (estimator) (up to £721) required for Historic Buildings Section for preparing estimates for maintenance and improvements work. Experience of special craftsmanship and of treatment of defects in old buildings essential. Application form, returnable by 25th November, from Architect (AR/EK/HB/4), County Hall, S.E.1. (1215). [7431]

KENT COUNTY COUNCIL

Applications are invited for appointment in the Buildings Department of an **ASSISTANT ARCHITECT** in A.P.T. Grade V(a) (£625-£685).

Applicants must be members of the Royal Institute of British Architects and have had experience in the preparation of sketch schemes and working drawings for modern buildings. Previous experience with a local authority is not essential.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, must be delivered to him not later than fourteen days after the appearance of this advertisement.

W. L. PLATTS,
Clerk of the County Council.
2nd November, 1953. [7438]

MISCELLANEOUS SECTION

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ARCHITECTURAL APPOINTMENTS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order 1952.

REQUIRED at once competent architectural assistant Intermediate standard; office experience essential; good draughtsman working drawings and details; good salary paid; West Lancashire area; private practice.—Write, with details, Box 1565. [7409]

FIRST-CLASS architect assistant required, age 33-40, for North Notts industrial area; general practice including factory, hotel and domestic work; knowledge of quantities advantageous; state qualifications and salary required.—Box 1714. [7427]

QUALIFIED Housing Architect. Full-time services required.—Apply, stating experience, age and salary, to Smiths Building Systems (Birmingham), Ltd., Smith Road, Wednesbury. [7424]

ARCHITECTURAL Assistant required in Preston (Lancs) office, capable of preparing working drawings and details from sketch plans and a good draughtsman, up to Inter. R.I.B.A. standard or beyond.—Please send details of qualifications, age and experience, when free, and salary required to Box 1742. [7439]

SITUATIONS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is exempted from the provisions of The Notification of Vacancies Order 1952.

REPRESENTATIVE with well-established connections with architects wanted by manufacturer of approved sanitary installation.—Please apply Box 1715. [7428]

SITUATIONS VACANT—contd.

QUANTITY SURVEYOR'S ASSISTANT required by British Railways, Eastern Region. Preference given to applicants with experience in abstracting and billing and assisting with site measurements. Salary £260 to £573/15 per annum according to age and experience. Free residential railway travel within specified limits. Certain free and reduced rate rail travel after qualifying period of service. Permanency to suitable applicant after probationary period. Five-day week.—Write giving full particulars of qualifications and experience to the Civil Engineer, Eastern Region, British Railways, King's Cross Station, London, N.1. [7429]

JUNIOR taker off and site measuring surveyors required.—Apply, stating age, experience and salary required to Lay & Partners, 8, Clarges Street, London, W.1. [7434]

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SHORTHAND Typist, experience with Architectural and electrical organizations, 23 years of age, seeks position in London area.—Box 1740. [7432]

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E. J. SAXBY, Incorporated Insurance Broker,
37a, Carfax, Horsham, Sussex. Tel. 990. [0134]

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WANTED, "A. and B.N." detail sheets 1 to 50 inclusive, urgently.—Price to Box 1713. [7423]

WANTED, 1yd shovel equipment for Lima and Byers excavator; Insley K12 1yd excavator with any equipment; Faircliff for Osgood 1yd excavator. Mole & Bray, Ltd., Stourport-on-Severn. Phone 361. [7435]

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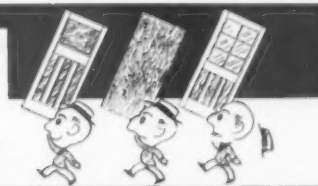
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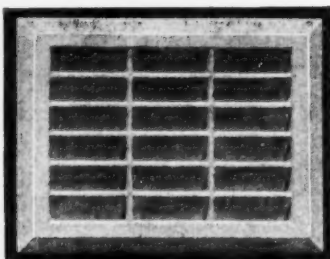
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STAND No. 42

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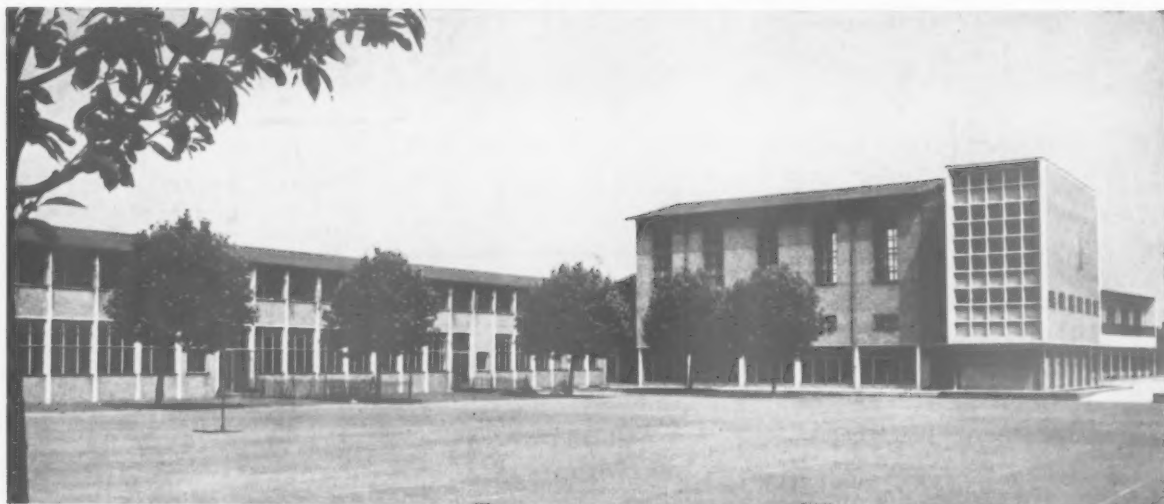
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